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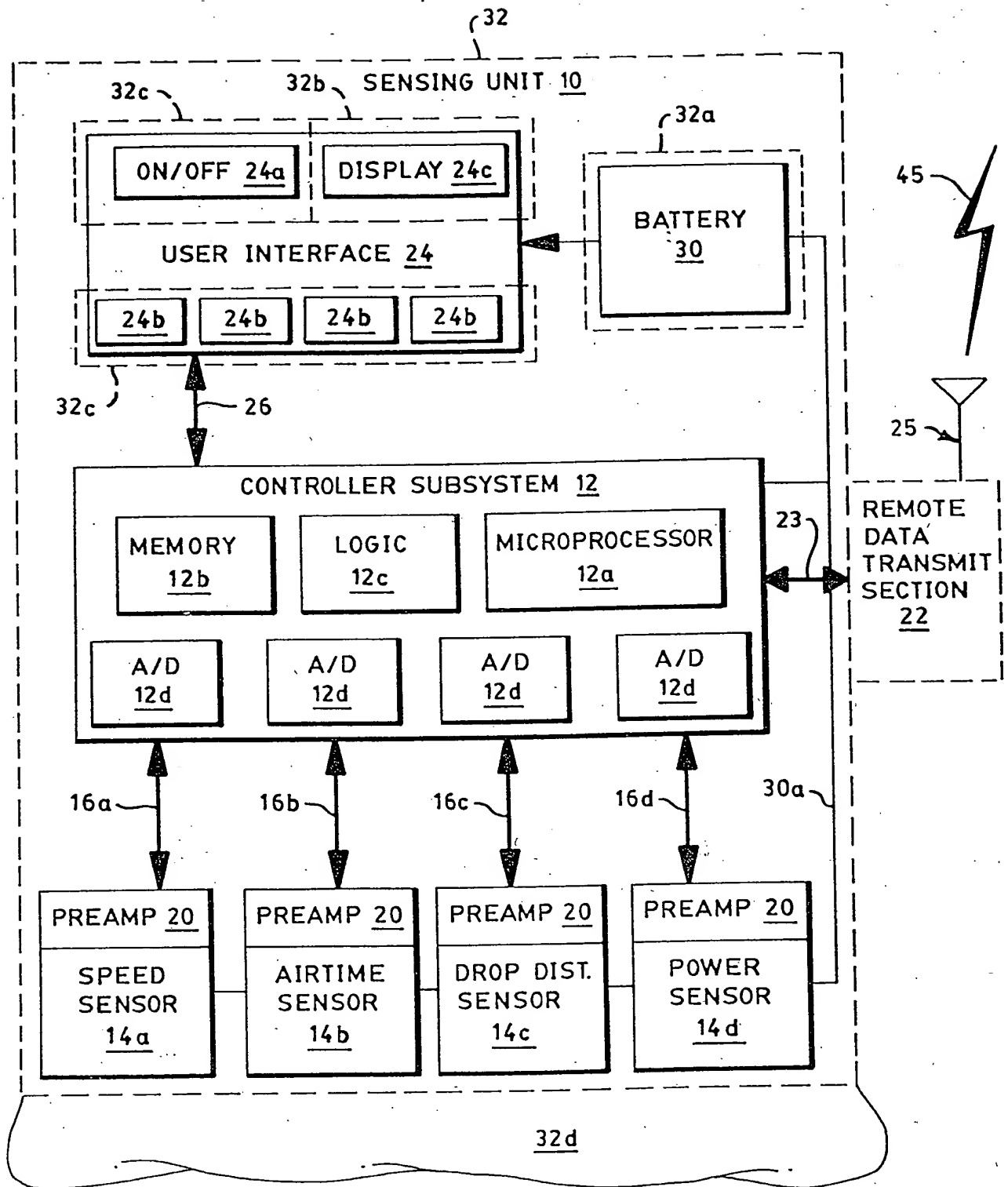


FIG. 1A

0992966 110601

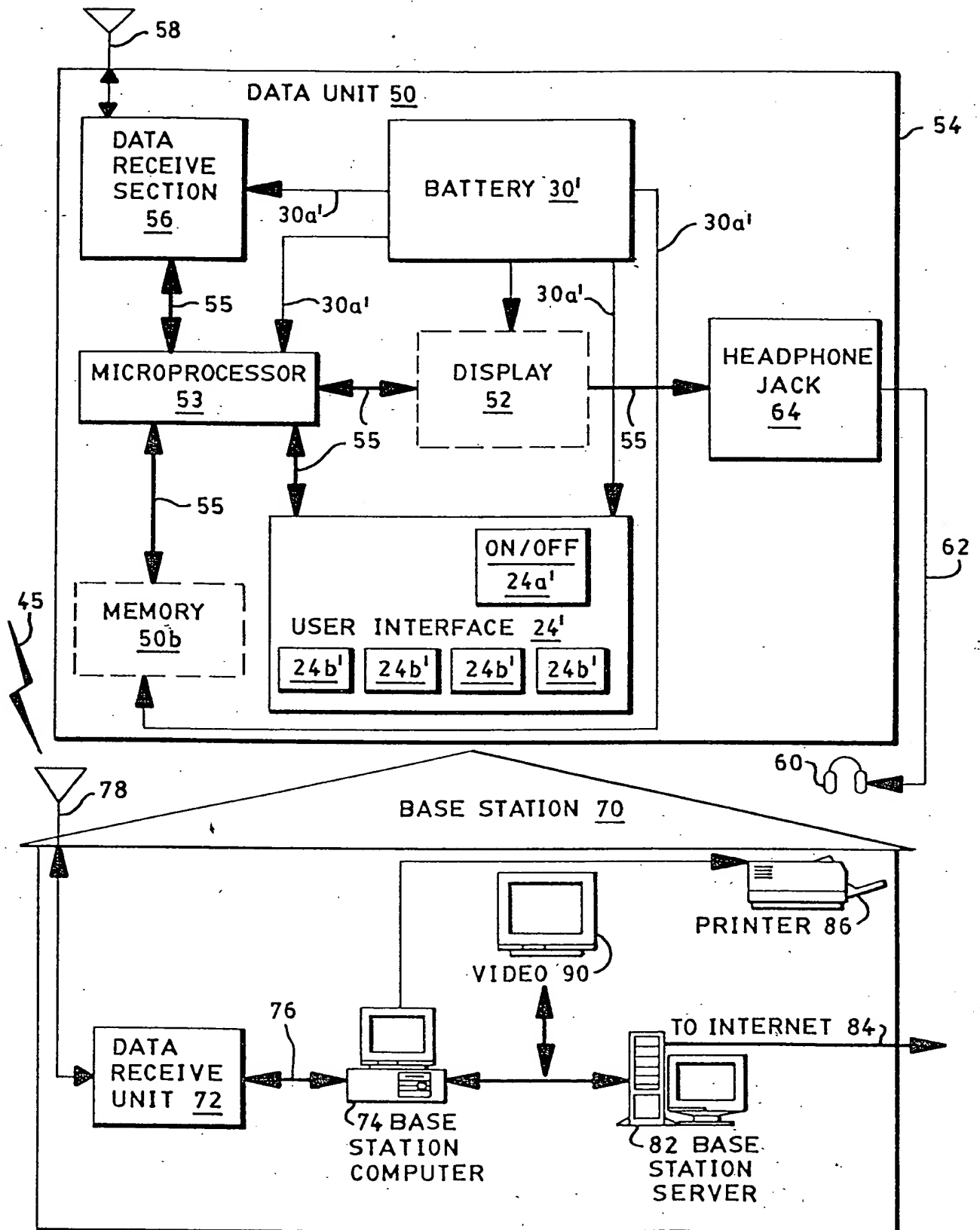


FIG. 1B

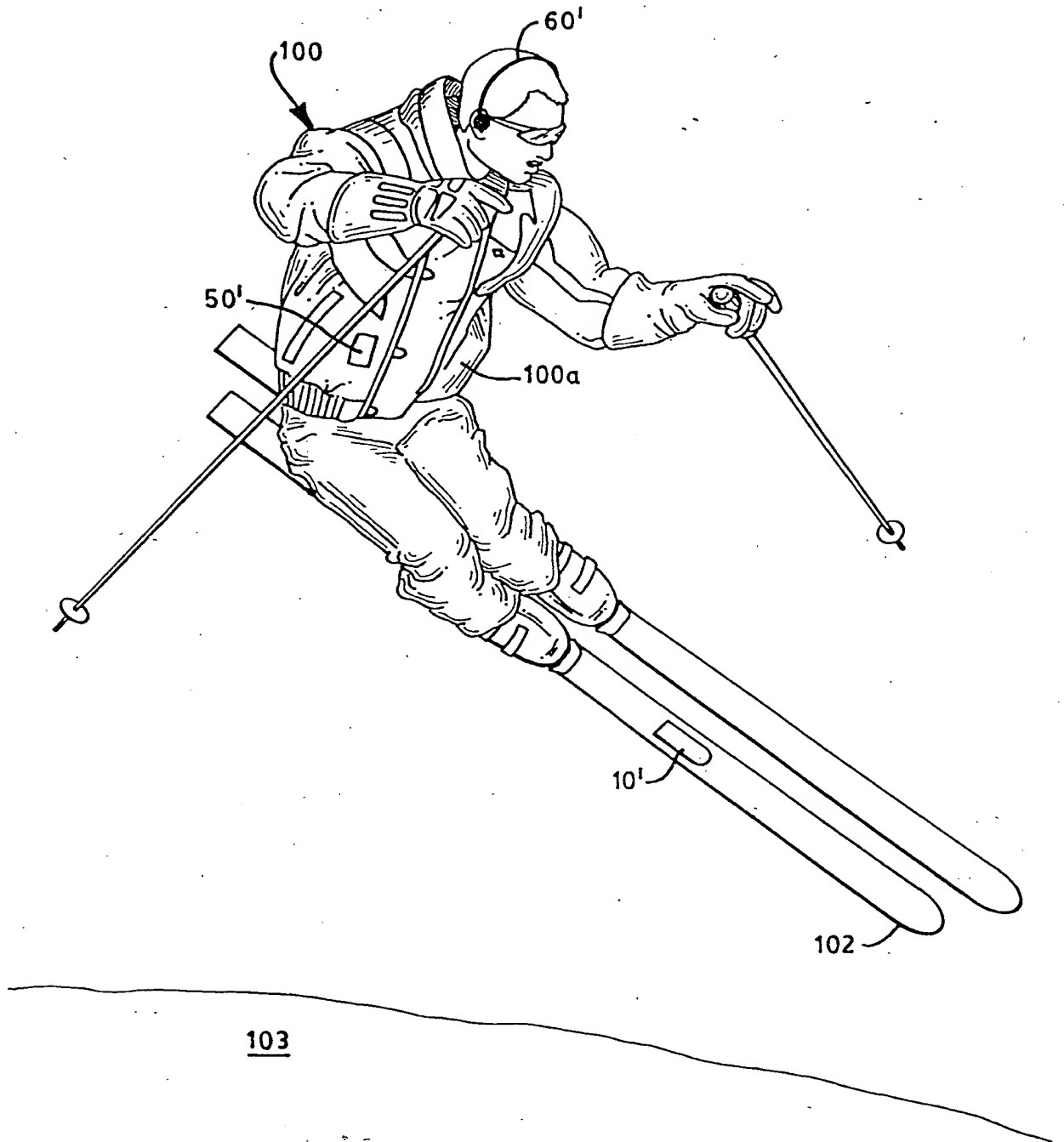


FIG. 2

FIG. 3

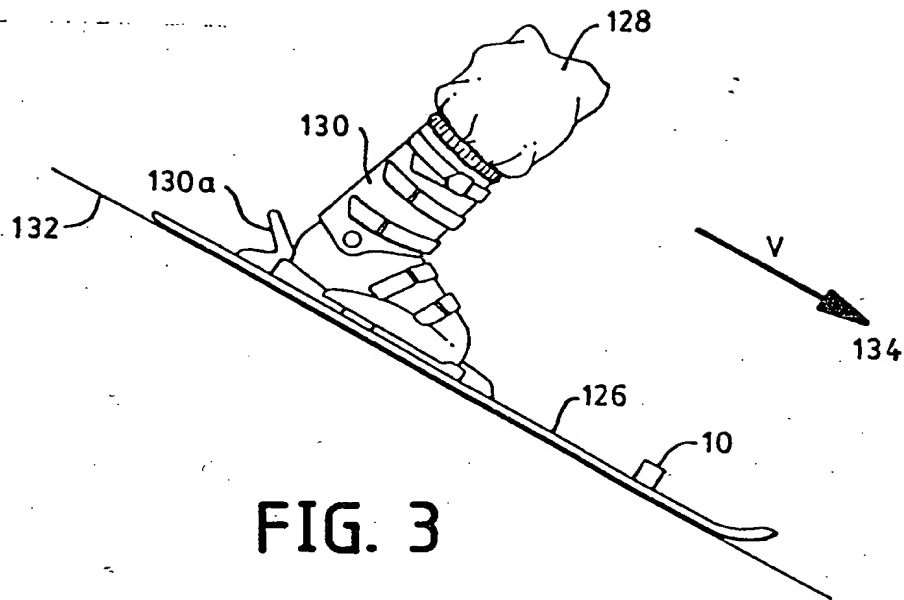


FIG. 3

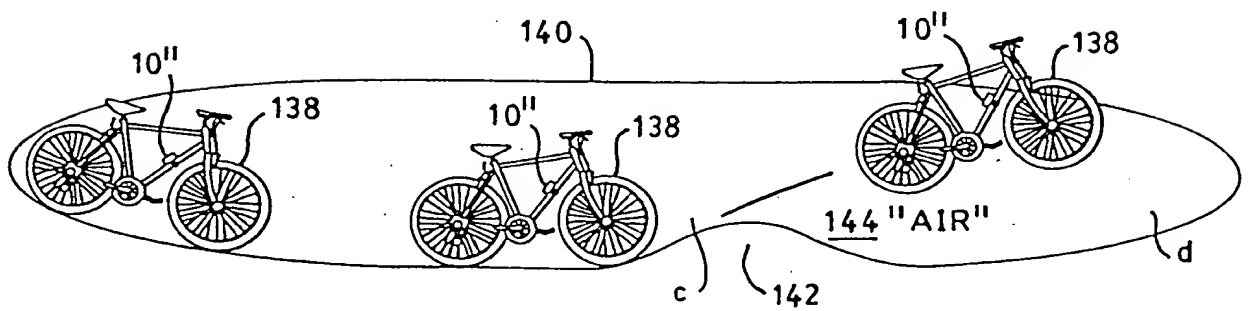
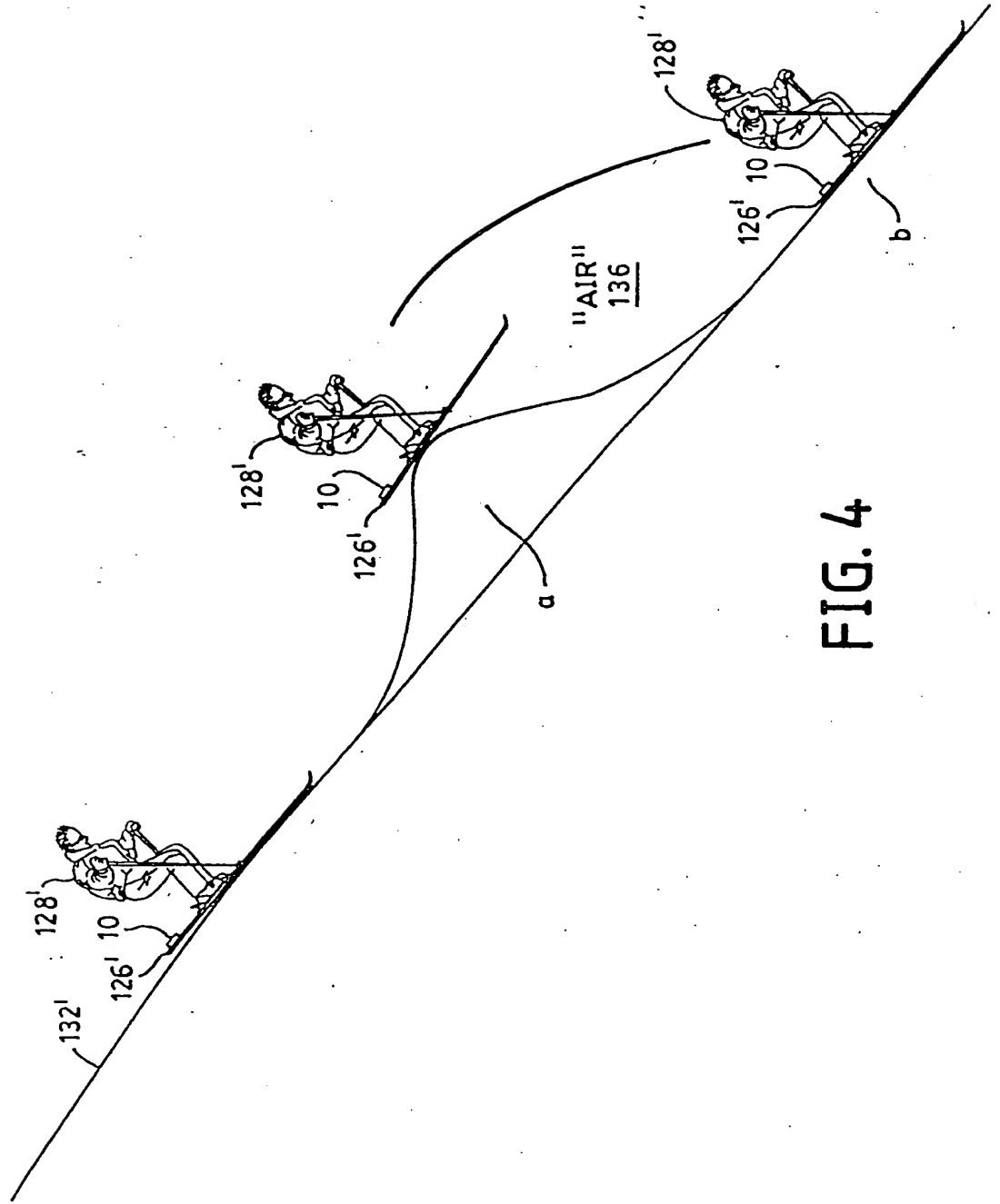
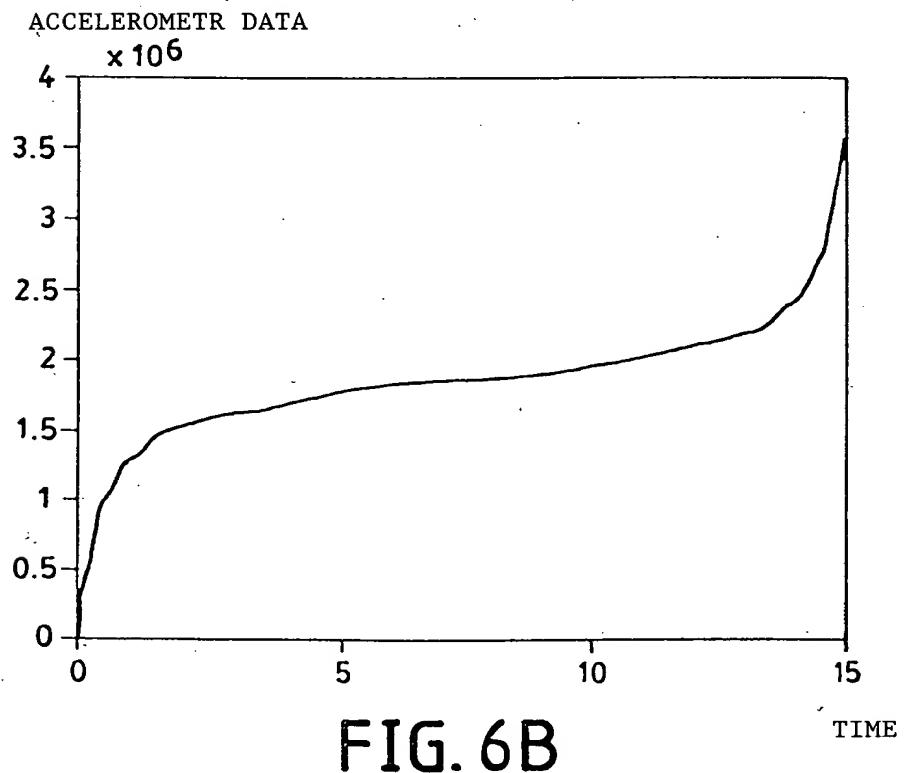
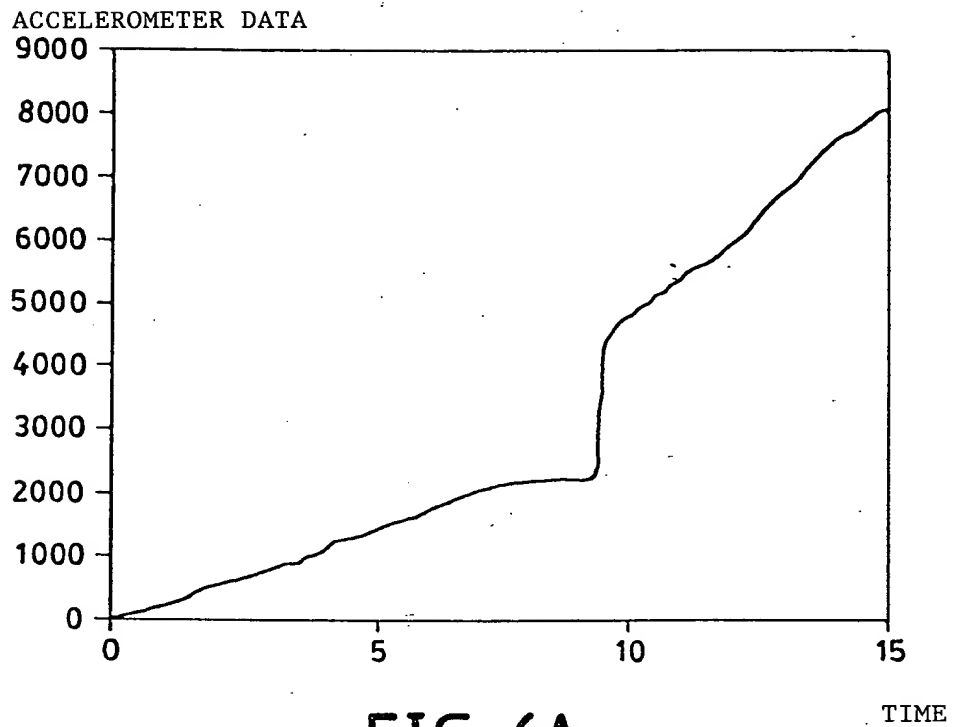


FIG. 5



0992966 110601
"0907" 9952550



09992966-110601

ACCELEROMETER DATA

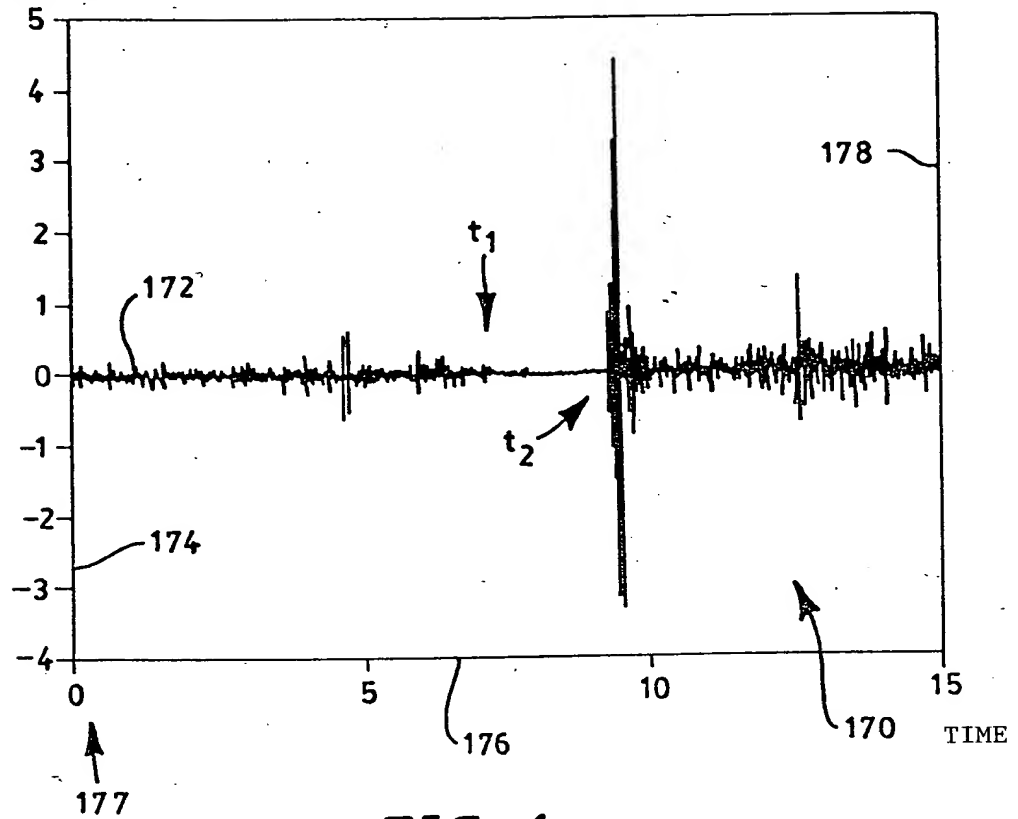


FIG. 6

VIBRATIONAL OR SOUND
SPECTRUM MAGNITUDE

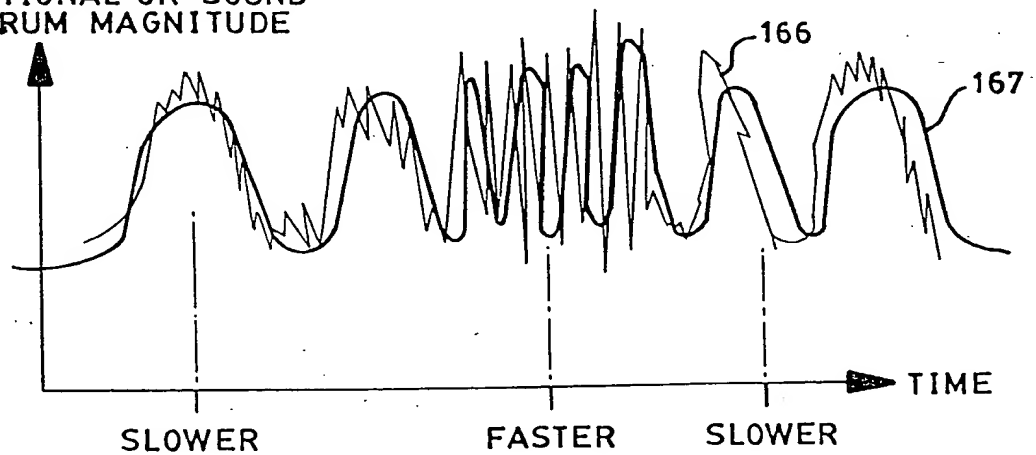


FIG. 8

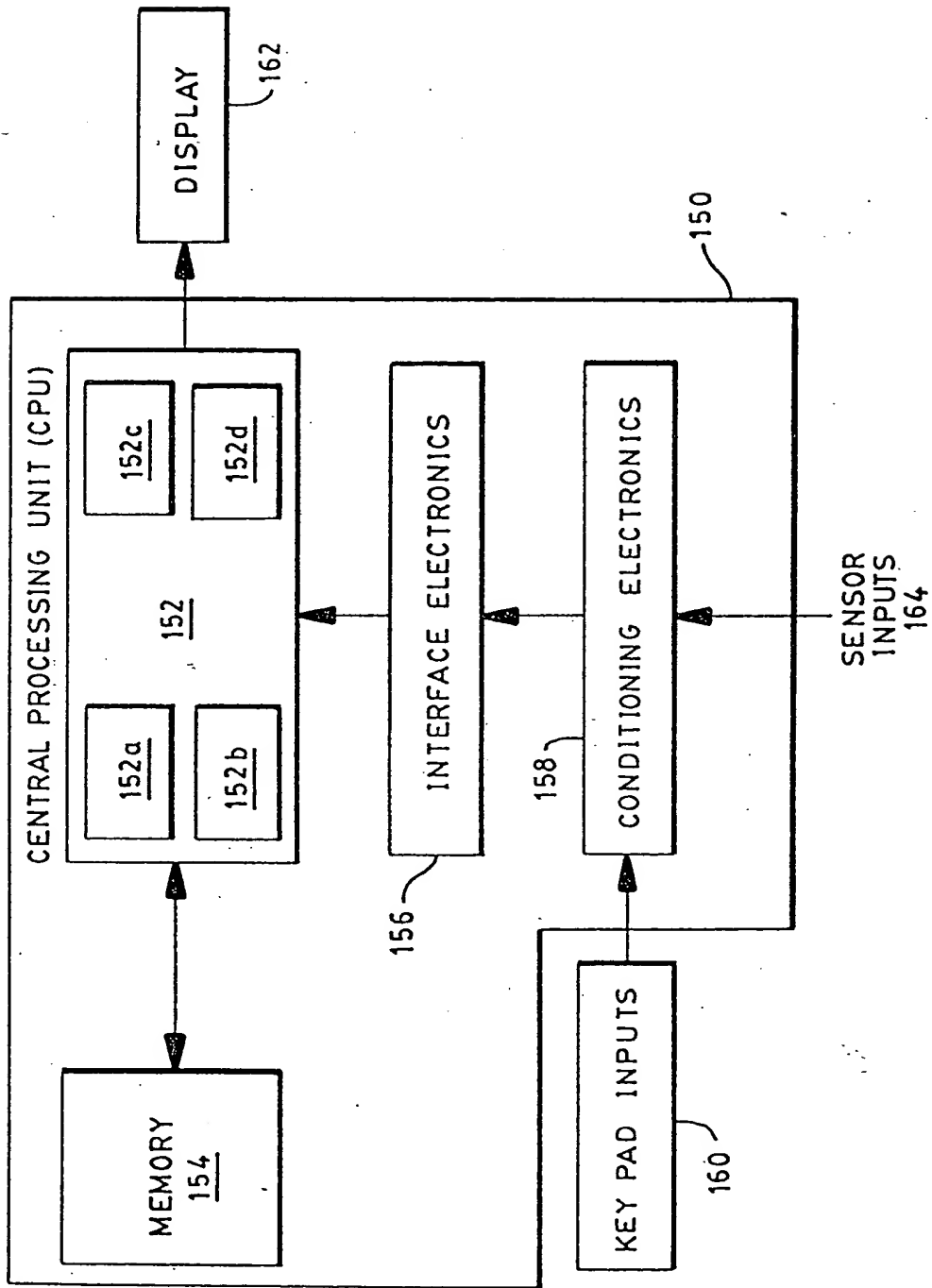


FIG. 7

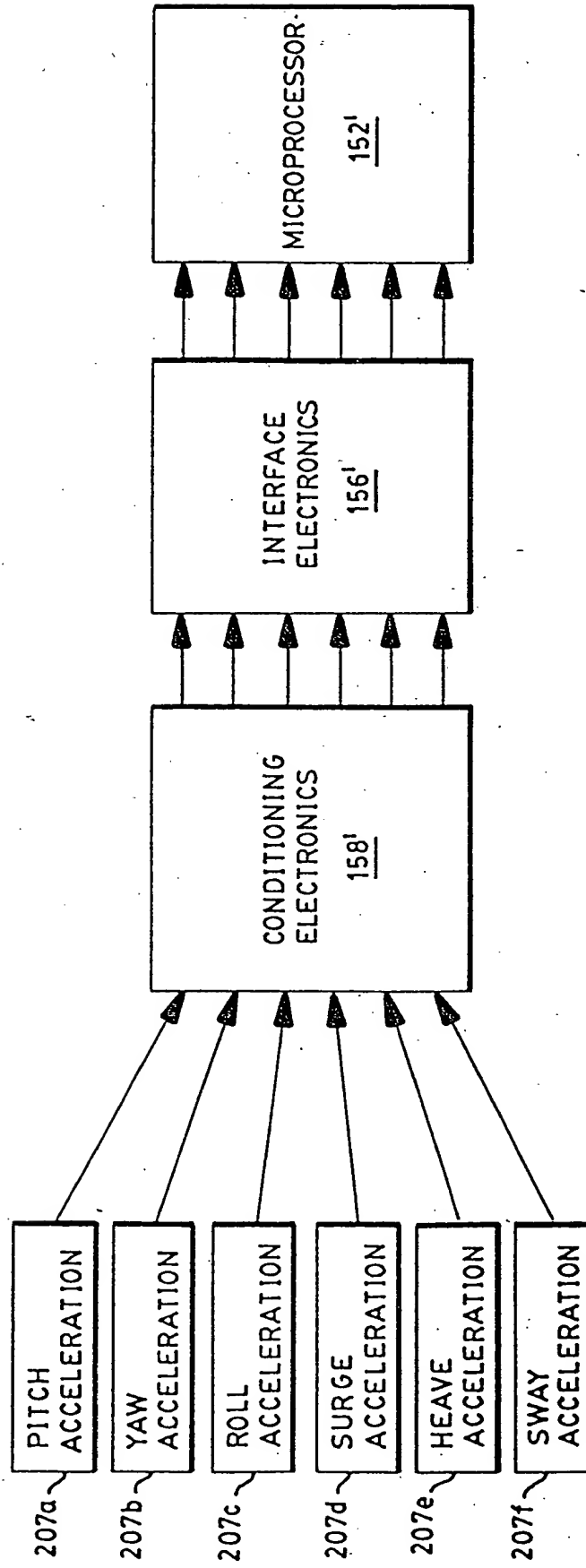


FIG. 9

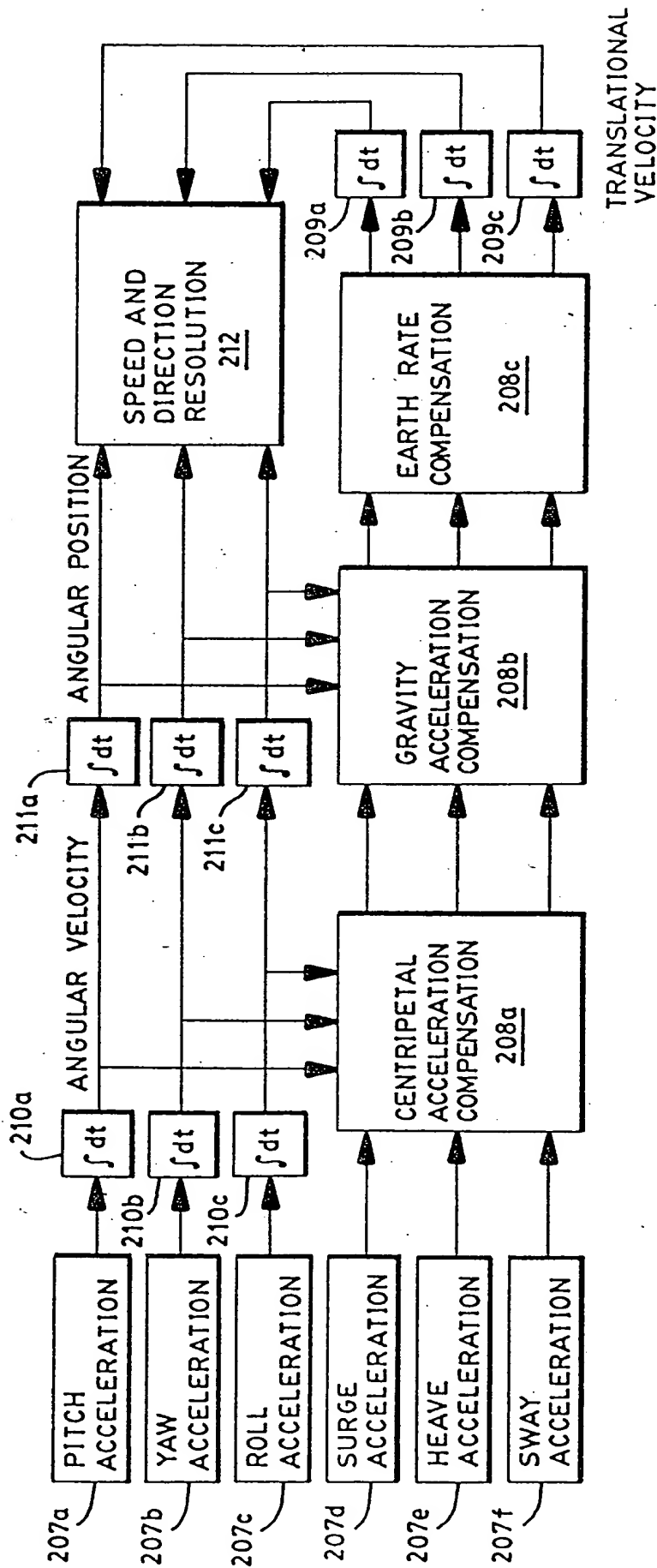


FIG. 10

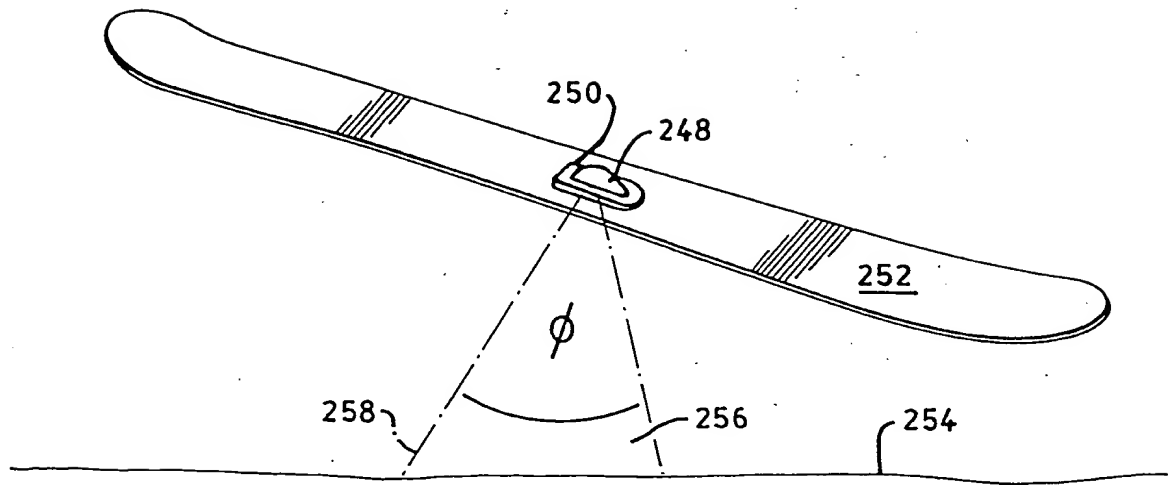


FIG. 11

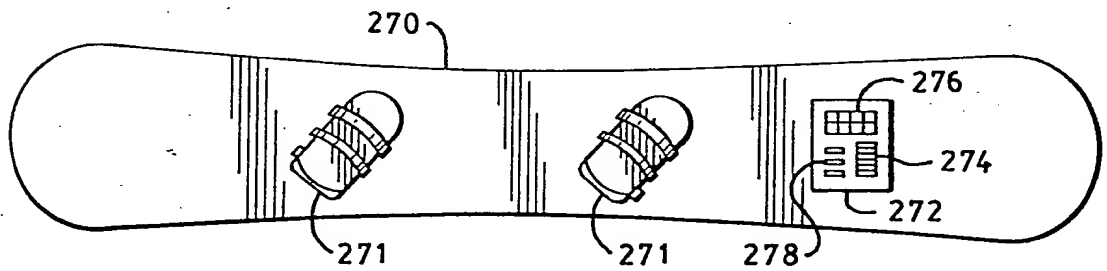


FIG. 12

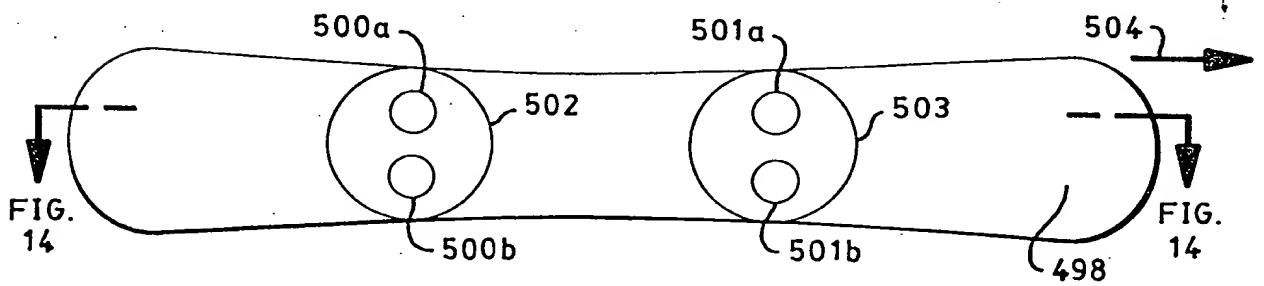


FIG. 13

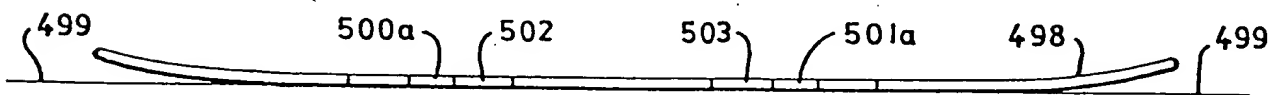


FIG. 14

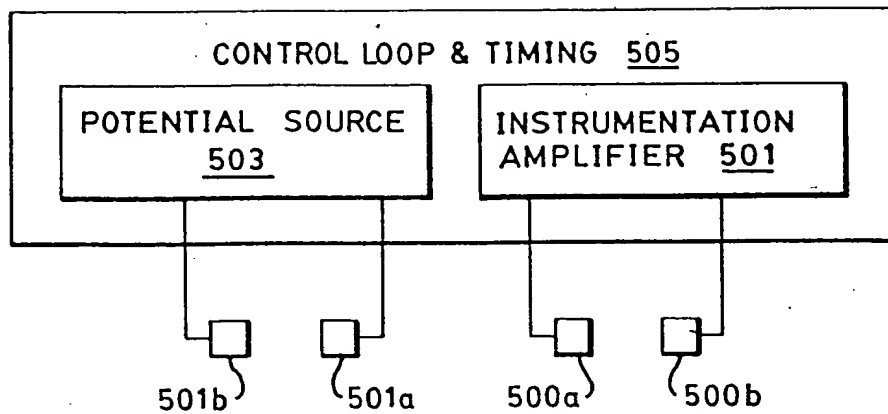


FIG. 15

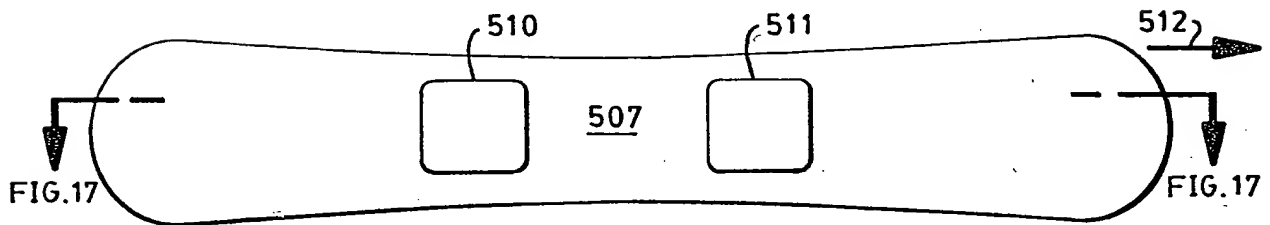


FIG. 16

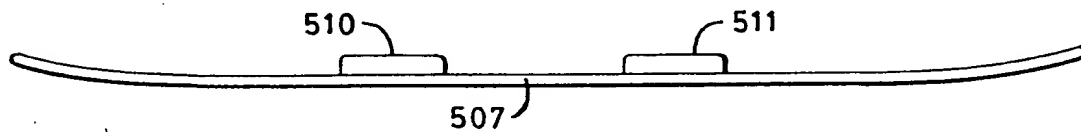


FIG. 17

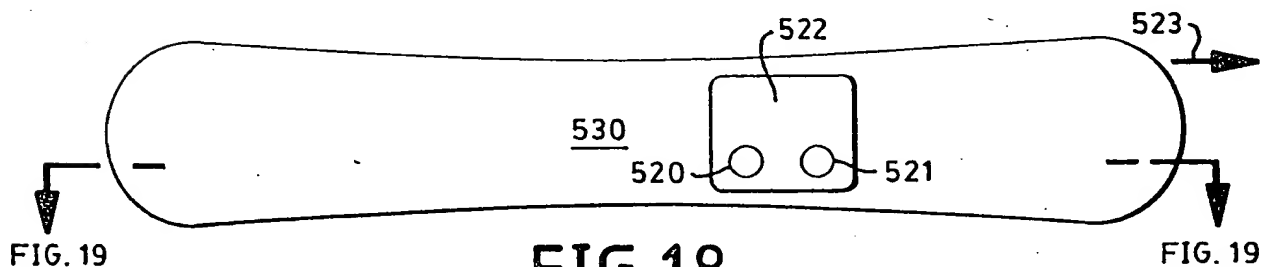


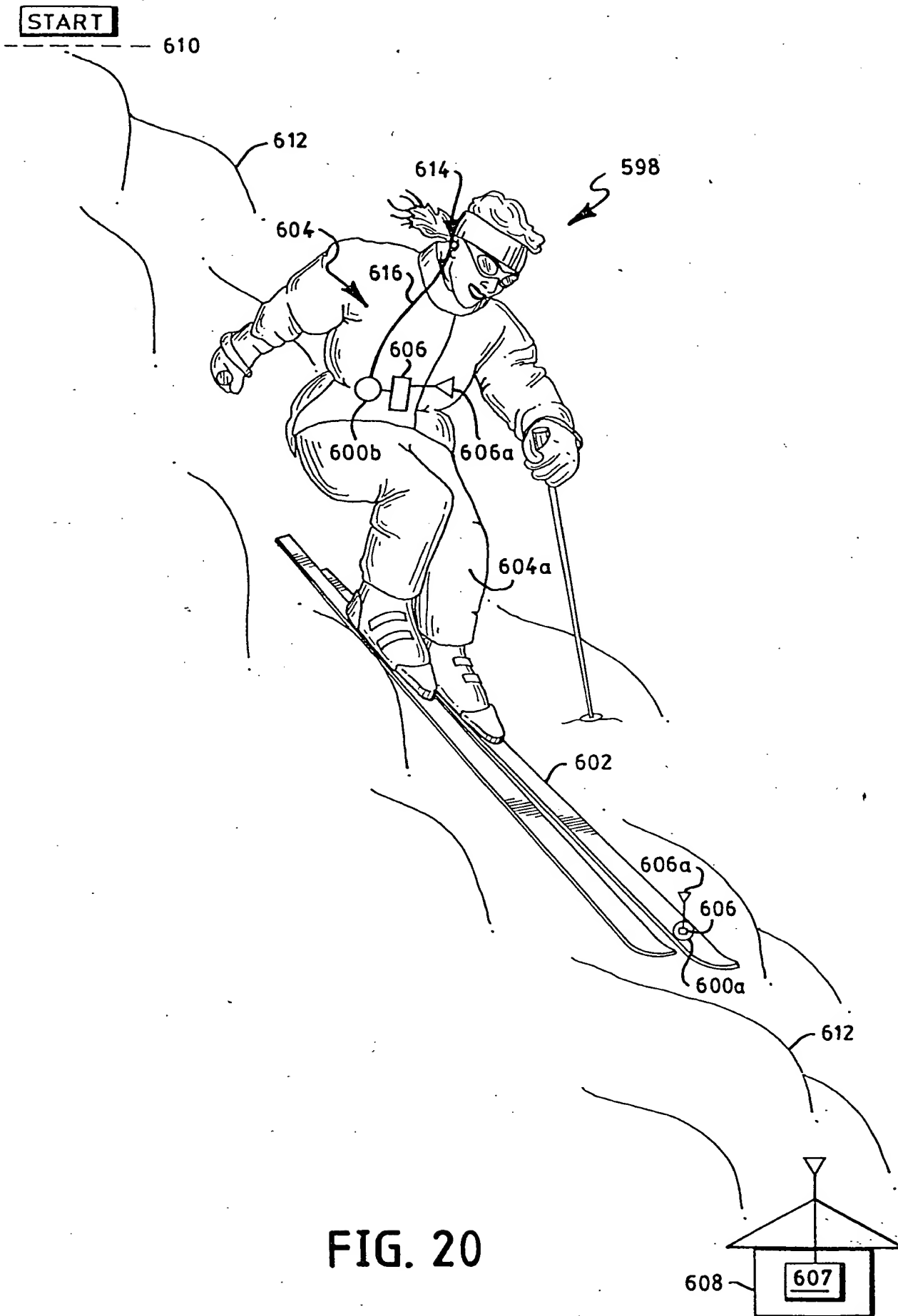
FIG. 18



FIG. 19

FIG. 15

FIG. 20



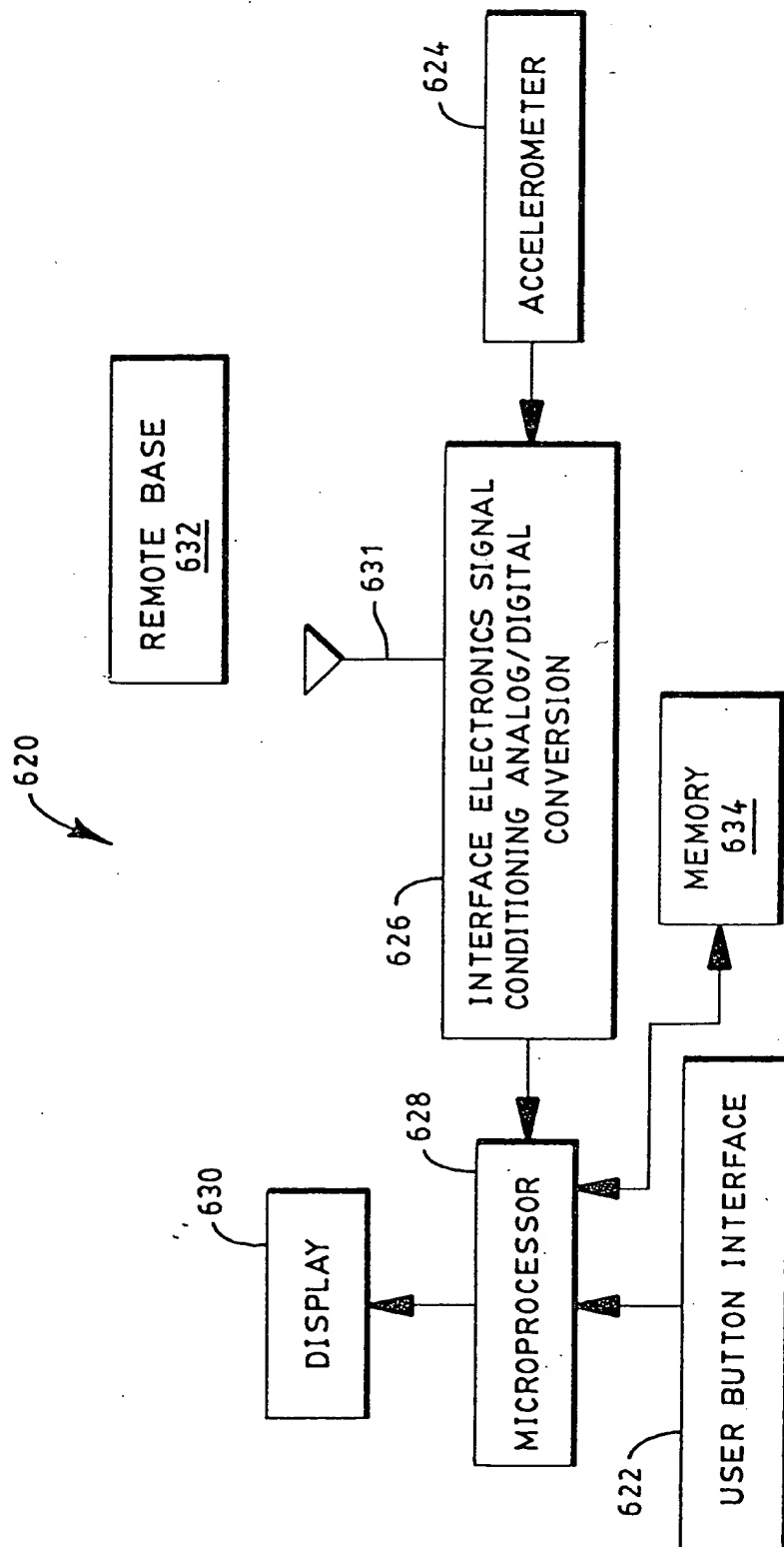


FIG. 21

FOOT" 9962650

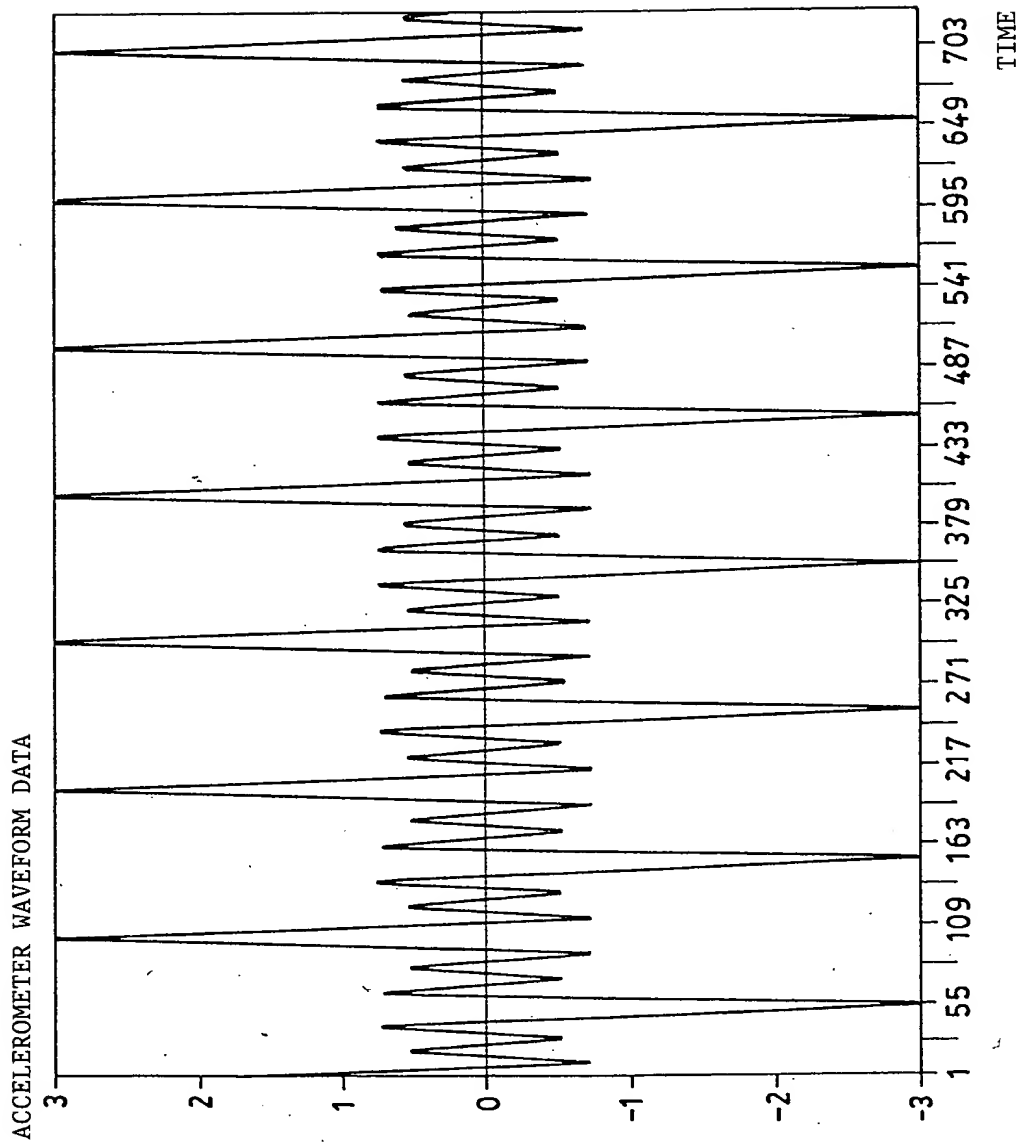


FIG. 22

FOOT" 9962560

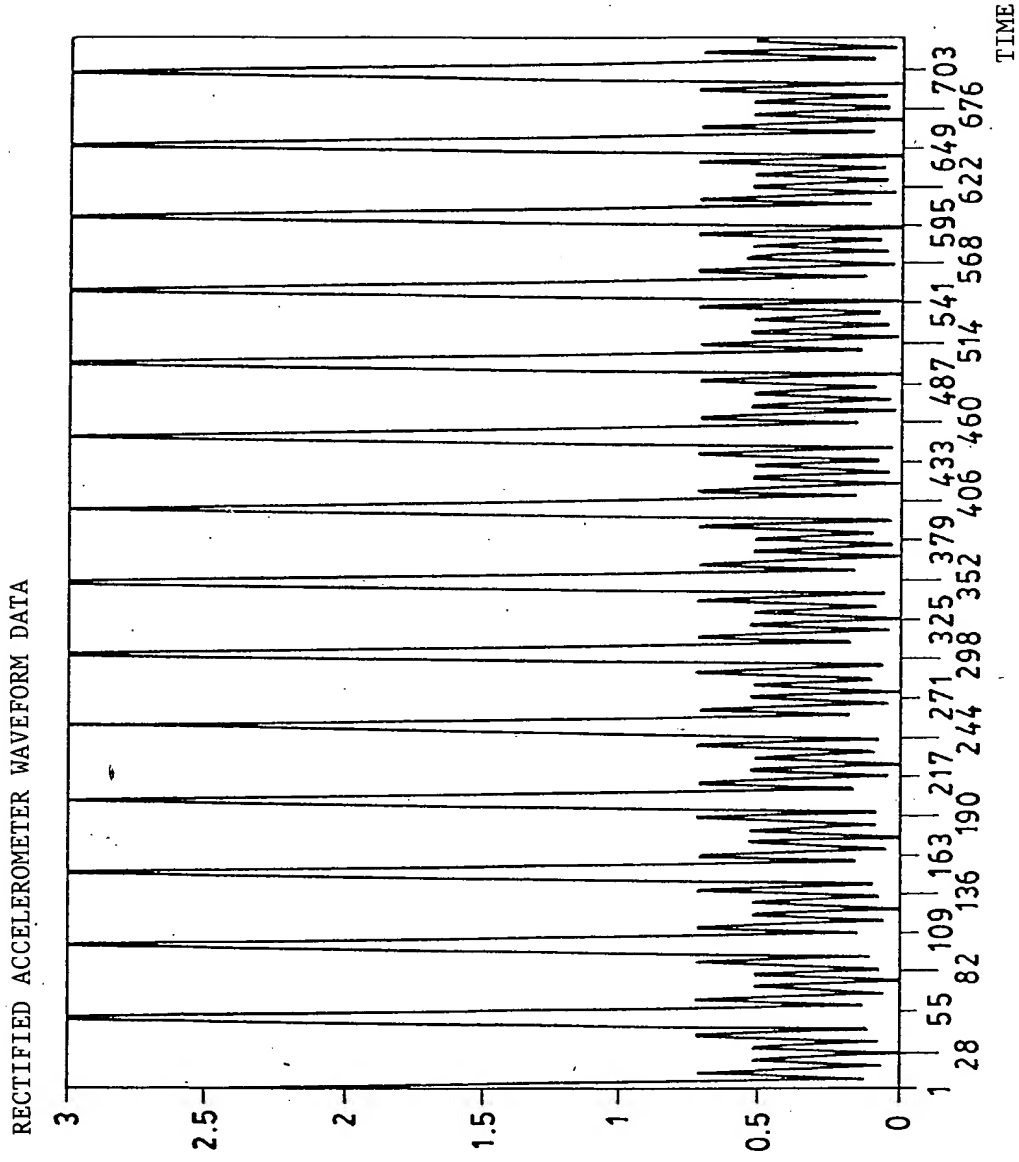


FIG. 23

TD30T" 9962660

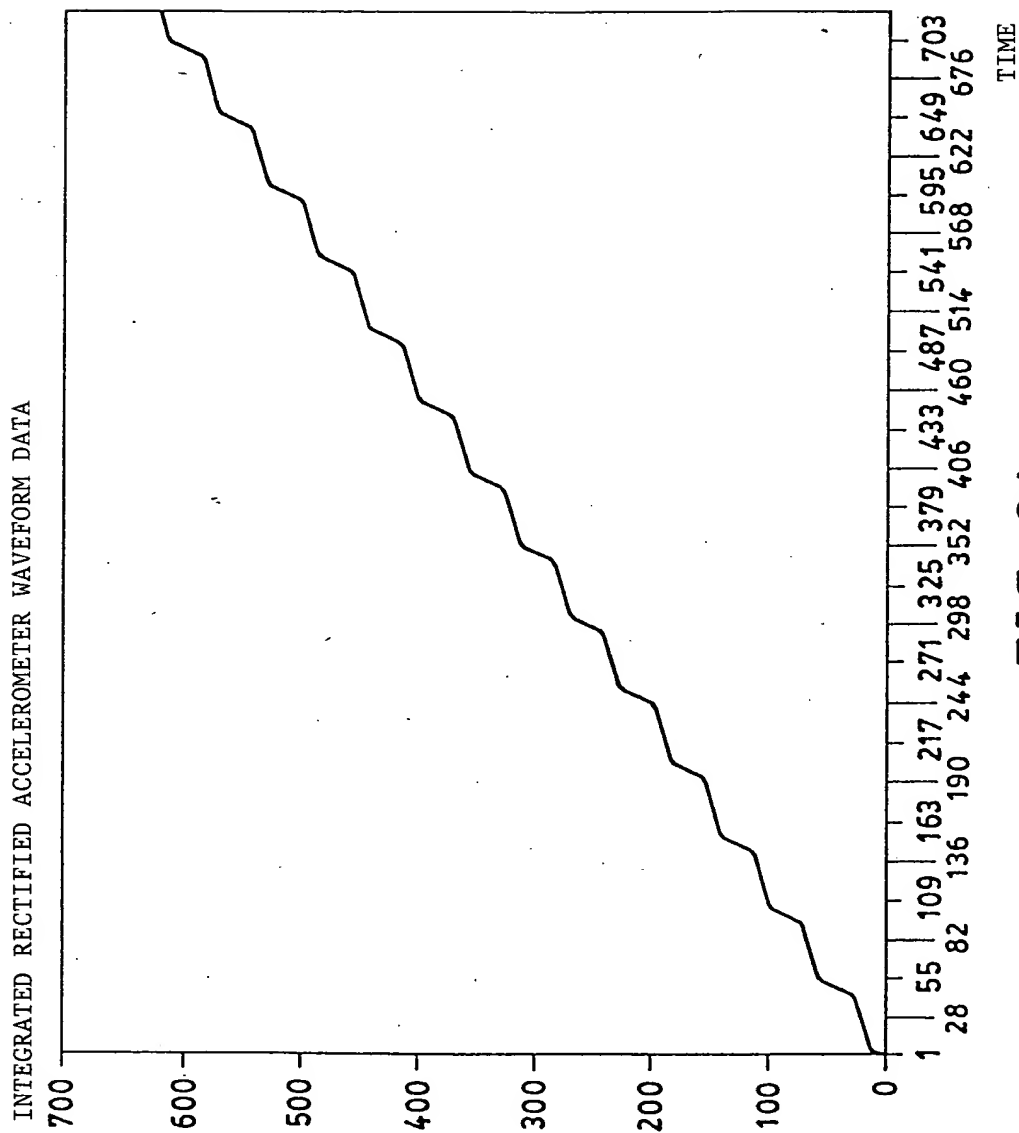


FIG. 24

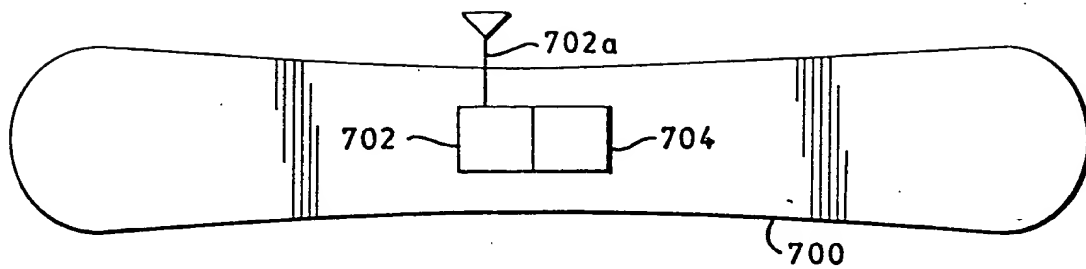


FIG. 25

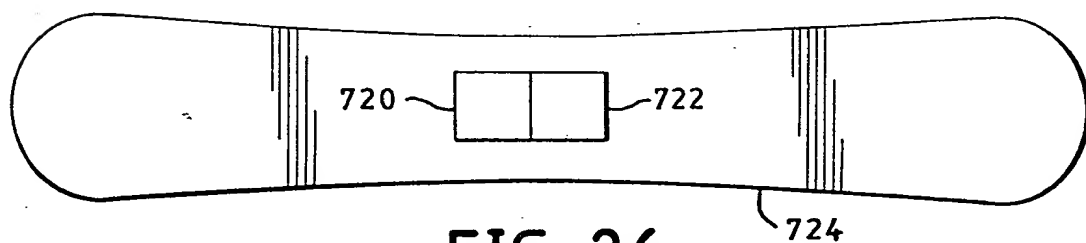


FIG. 26

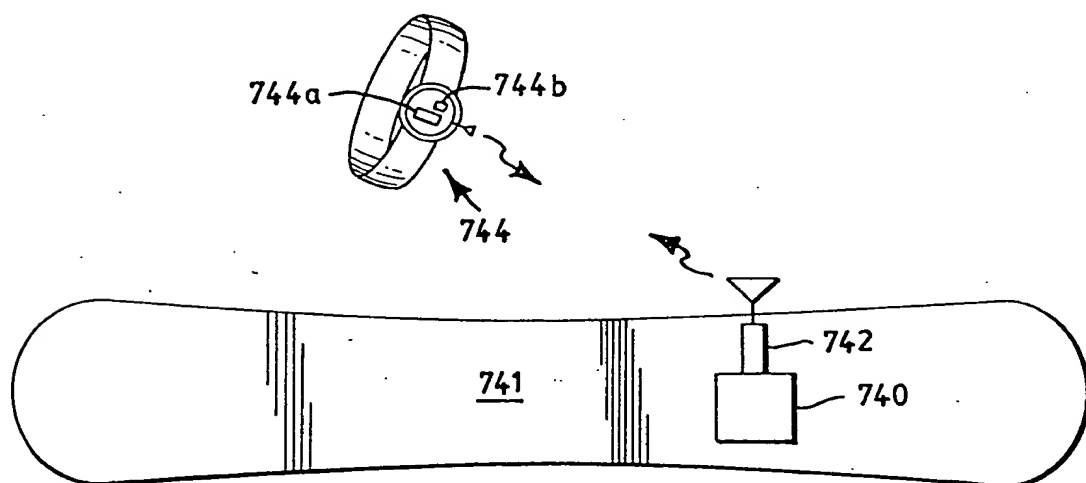


FIG. 27

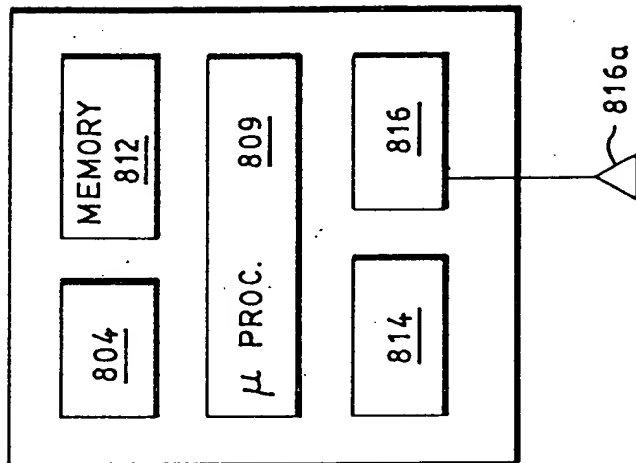
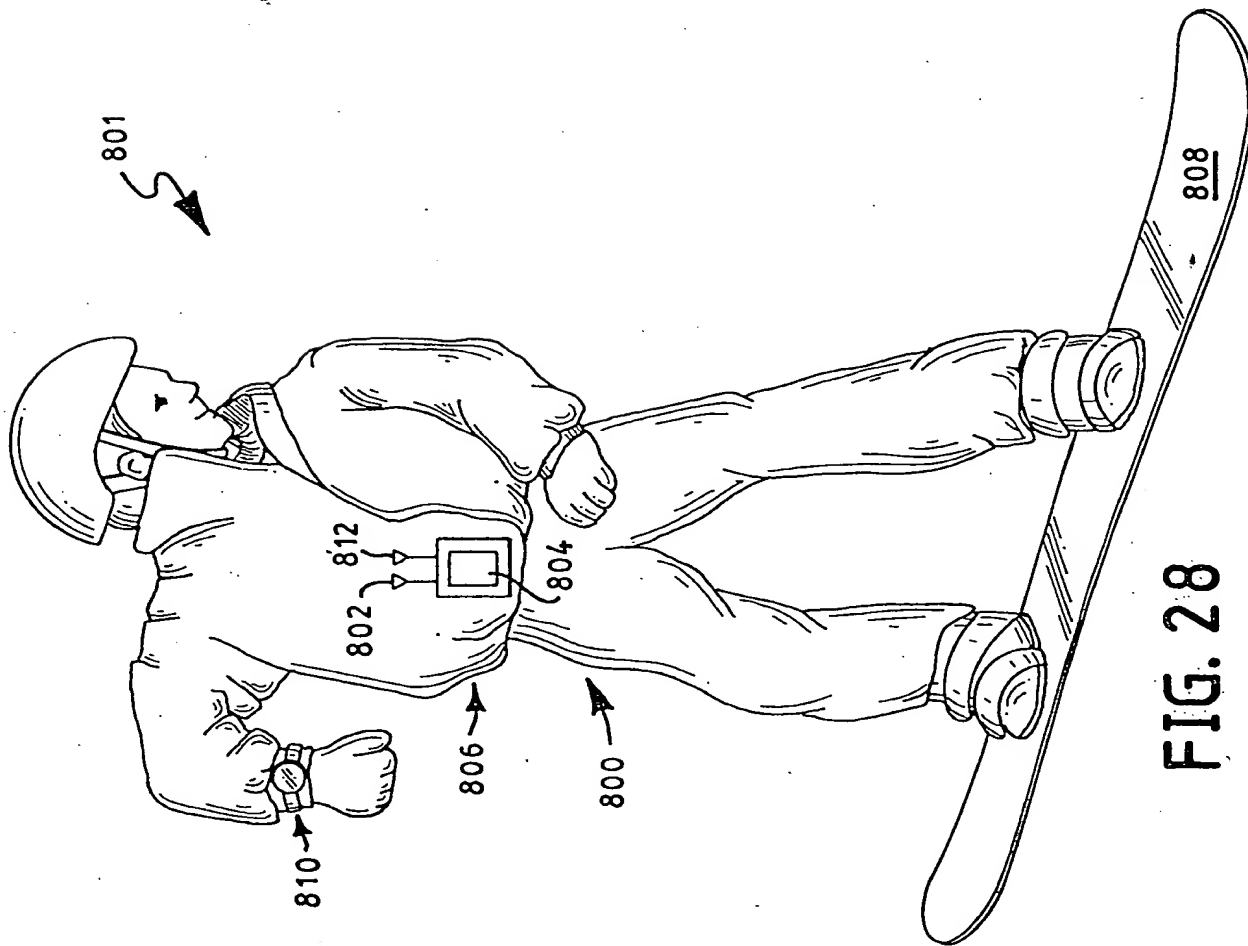


FIG. 29

FIG. 28

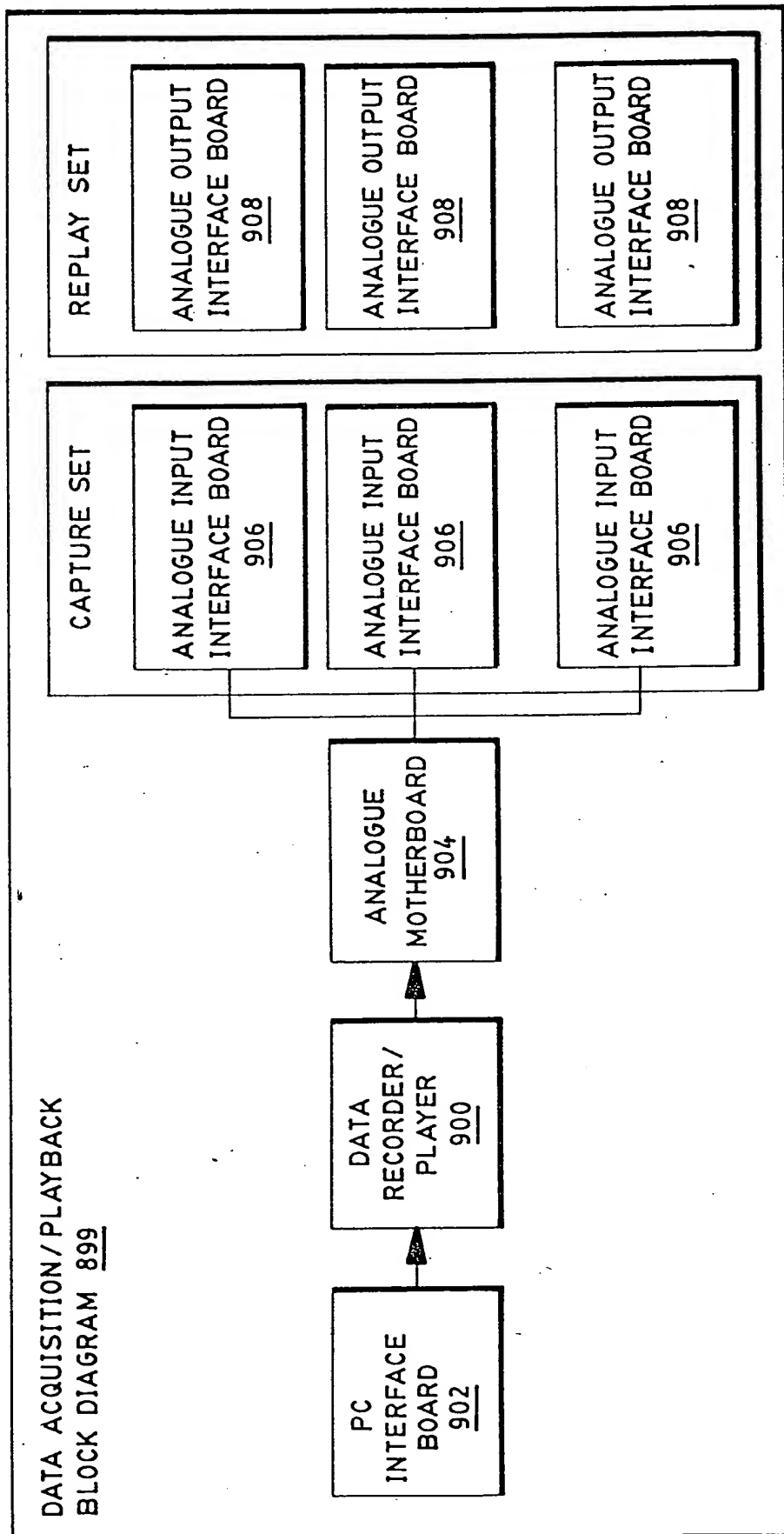


FIG. 30

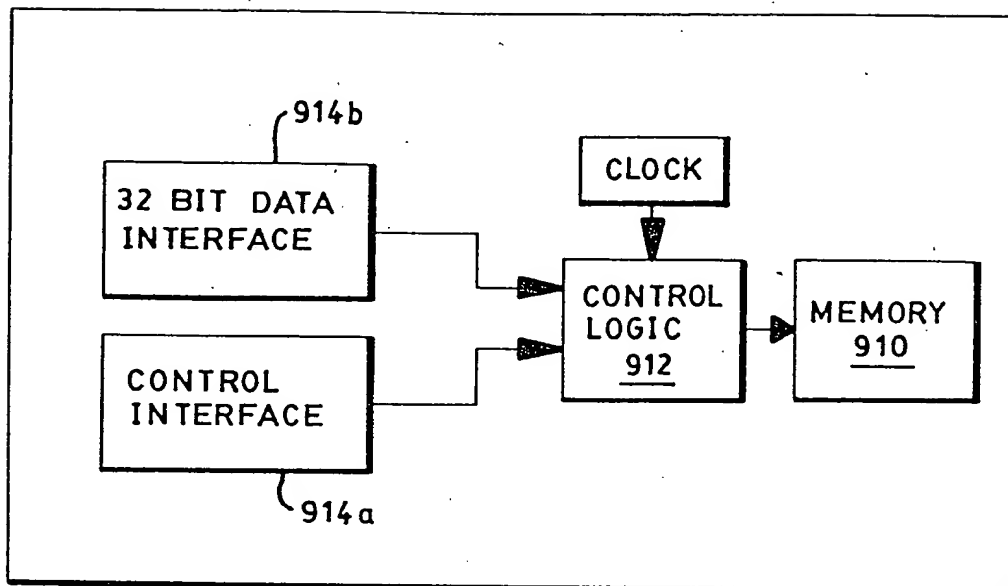


FIG. 31

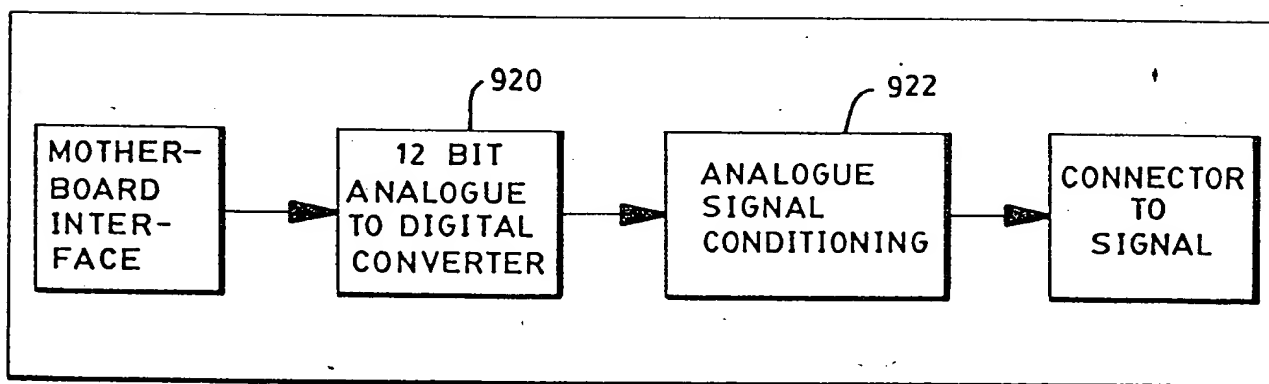


FIG. 33

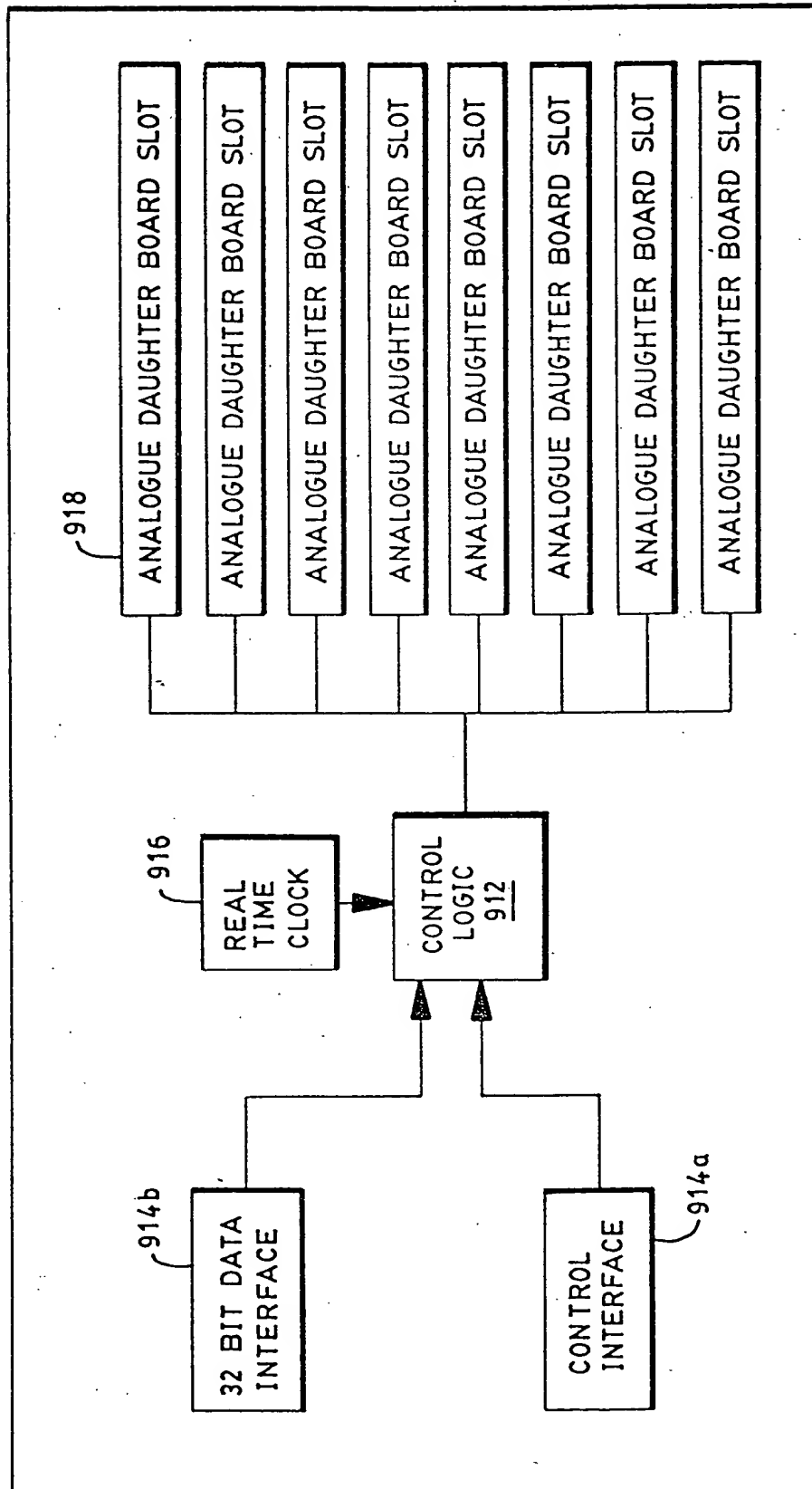


FIG. 32

930

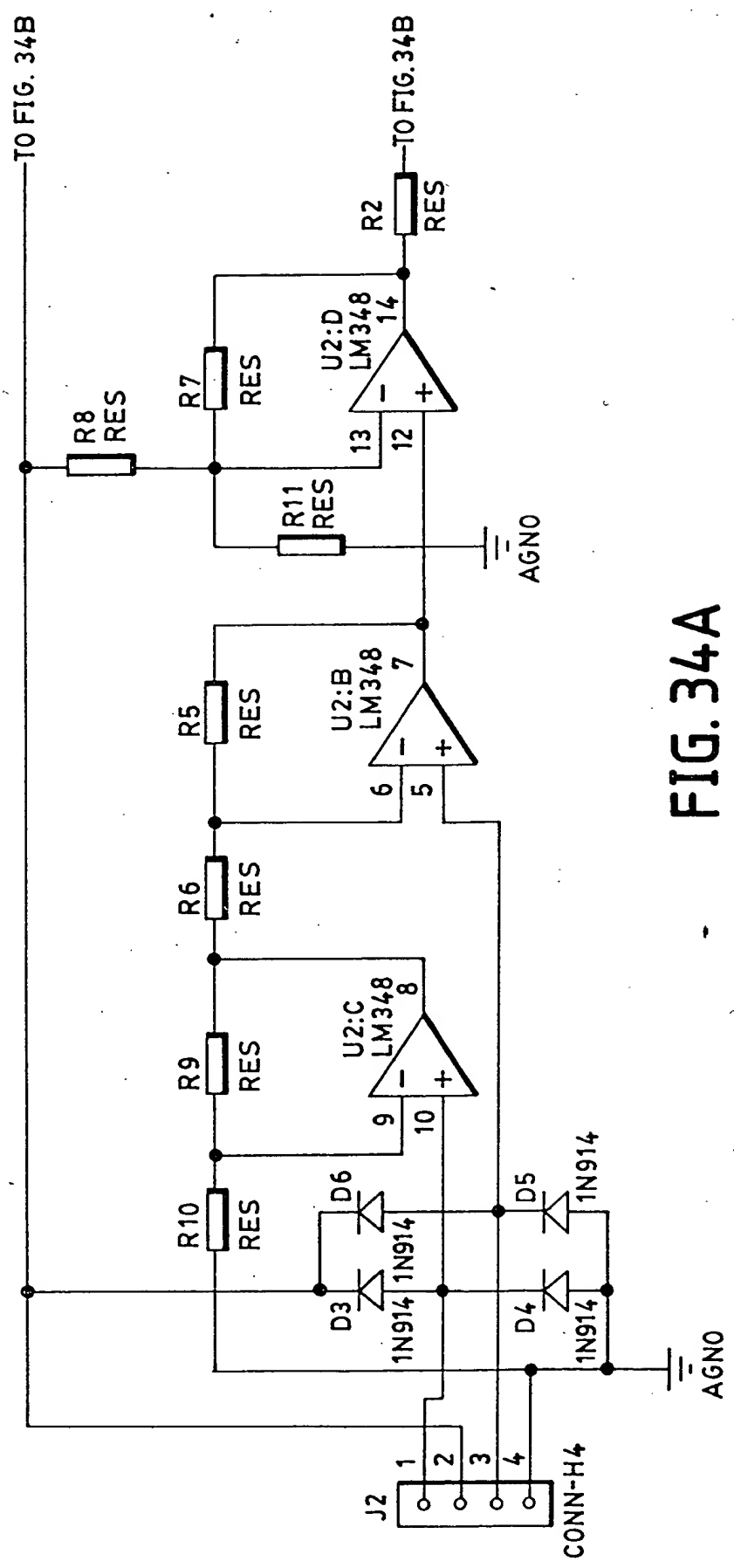


FIG. 34A

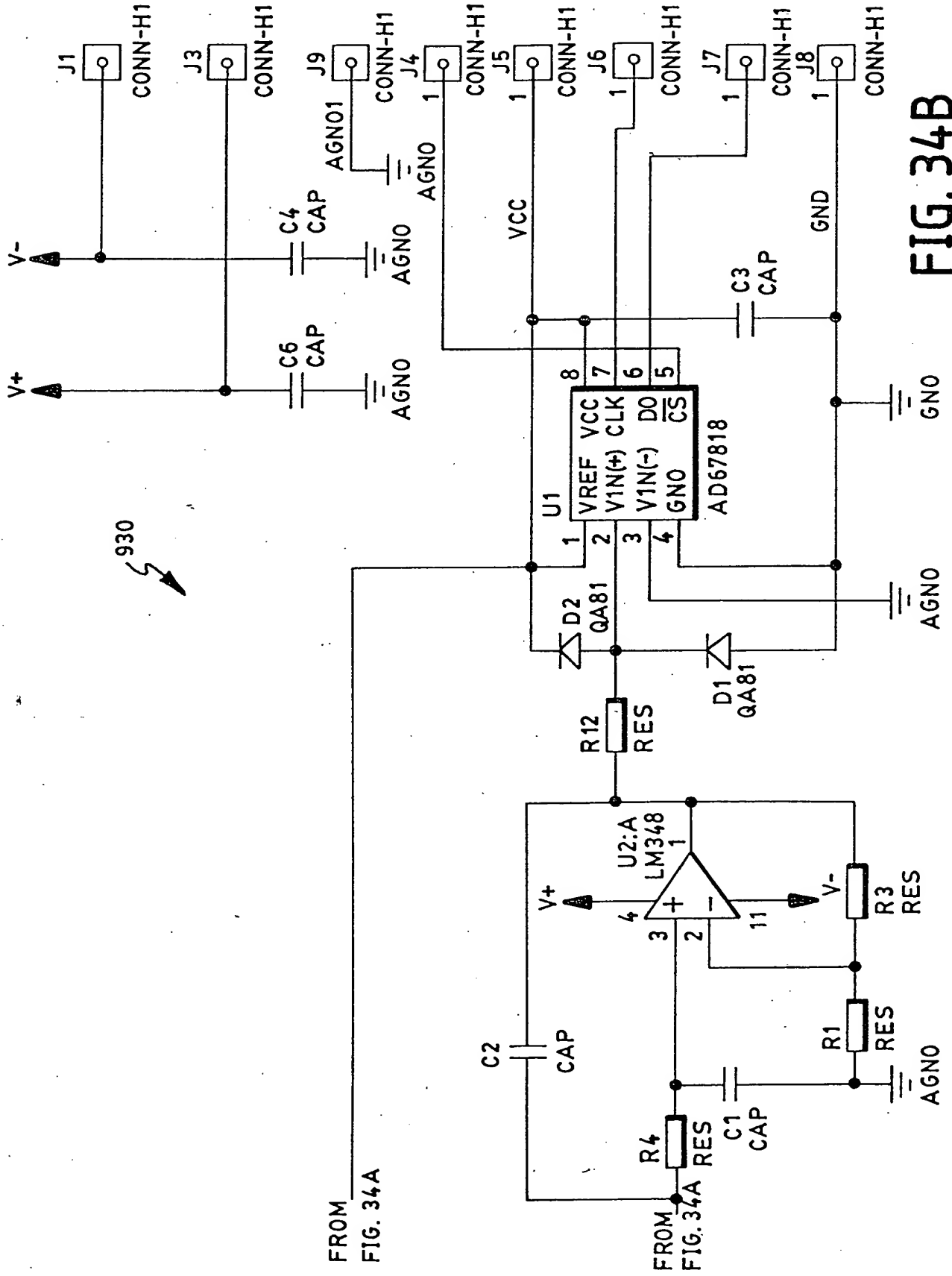


FIG. 34B

940

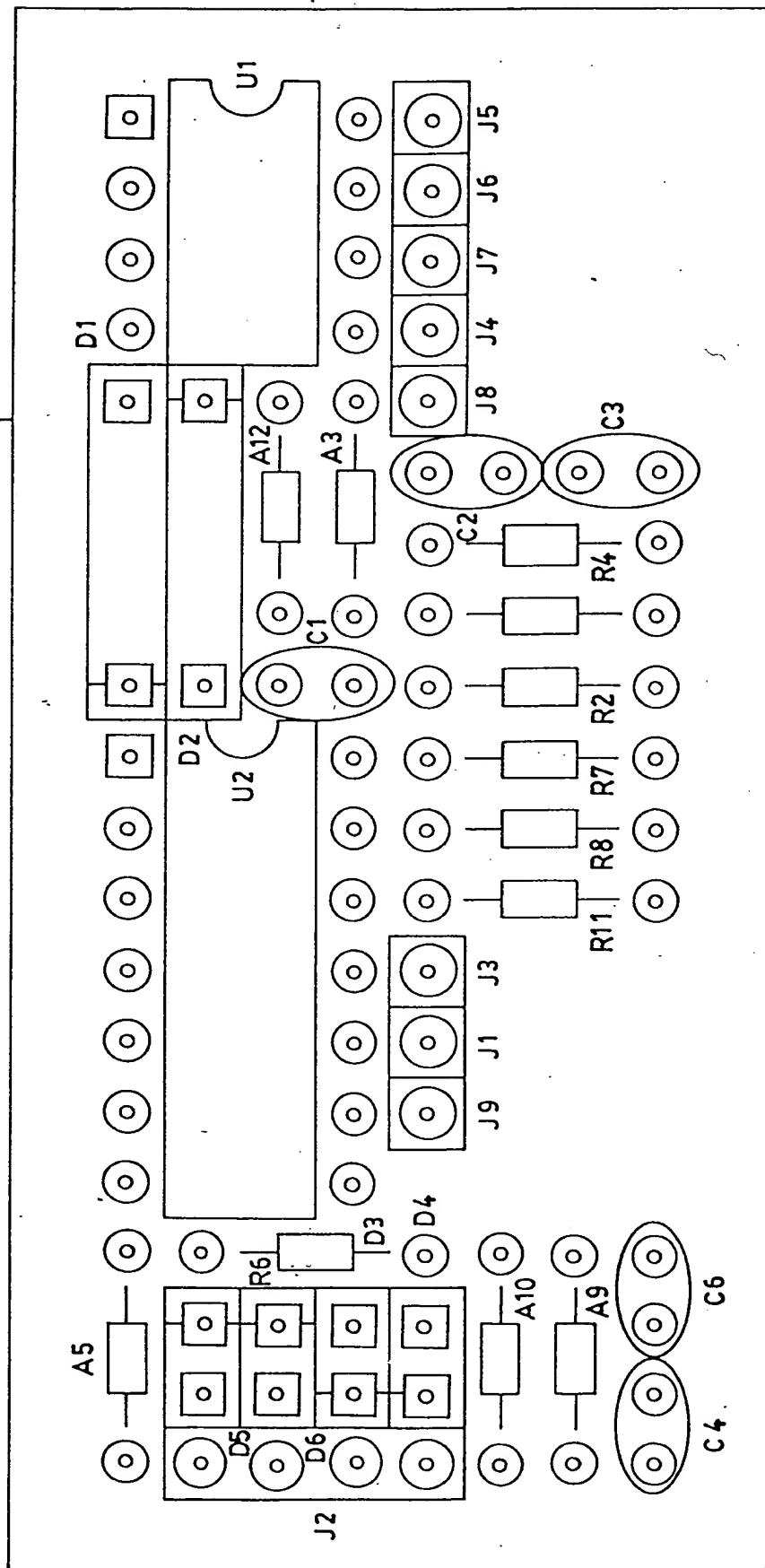


FIG. 35

FIG. 36

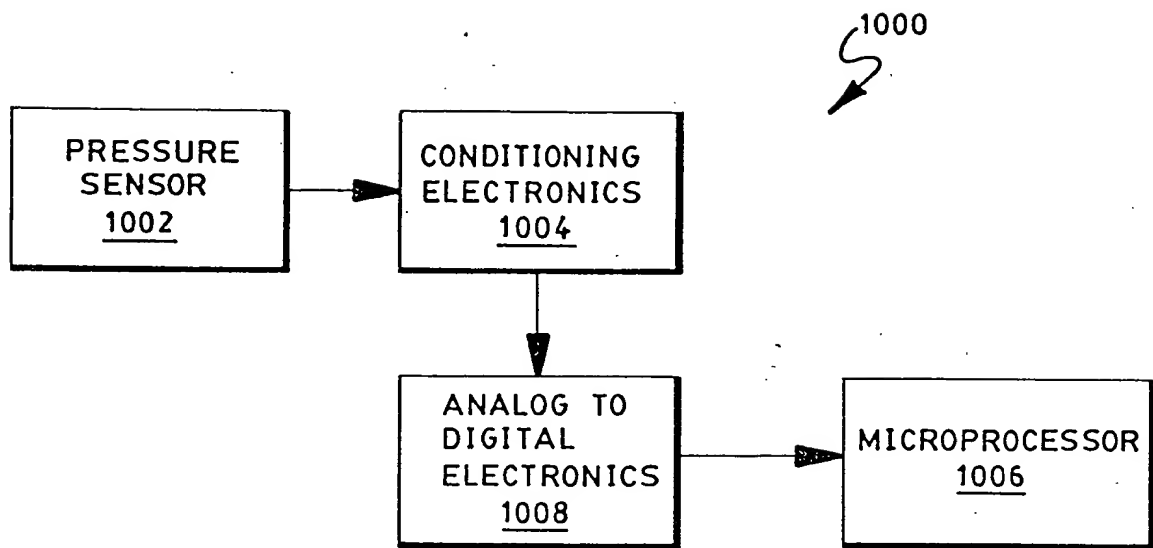


FIG. 36

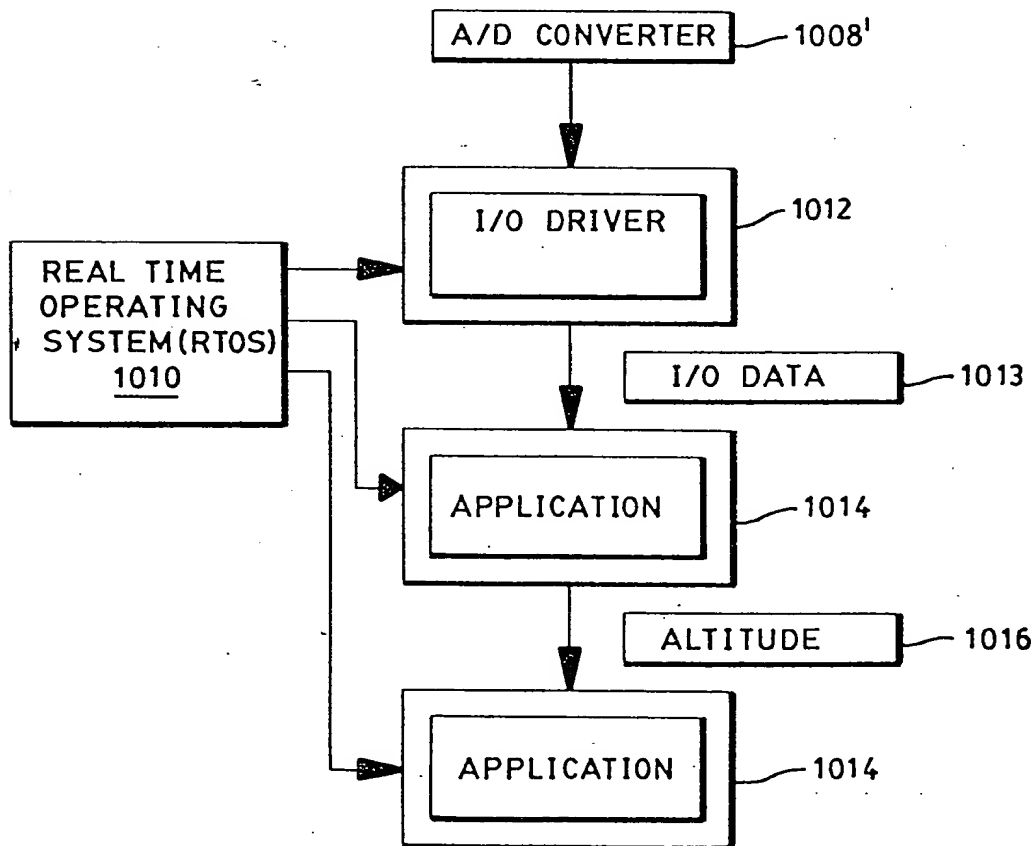


FIG. 37

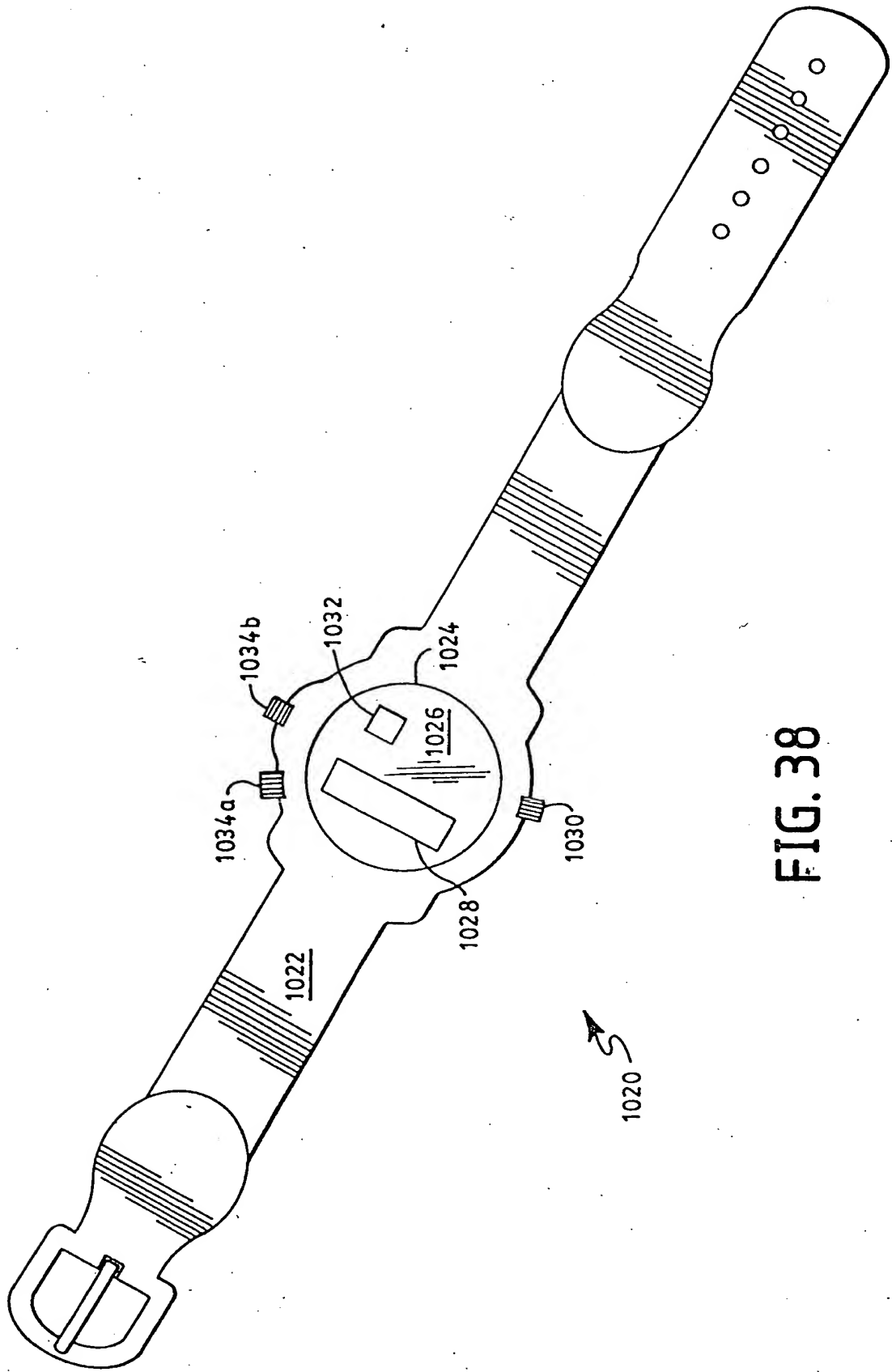


FIG. 38

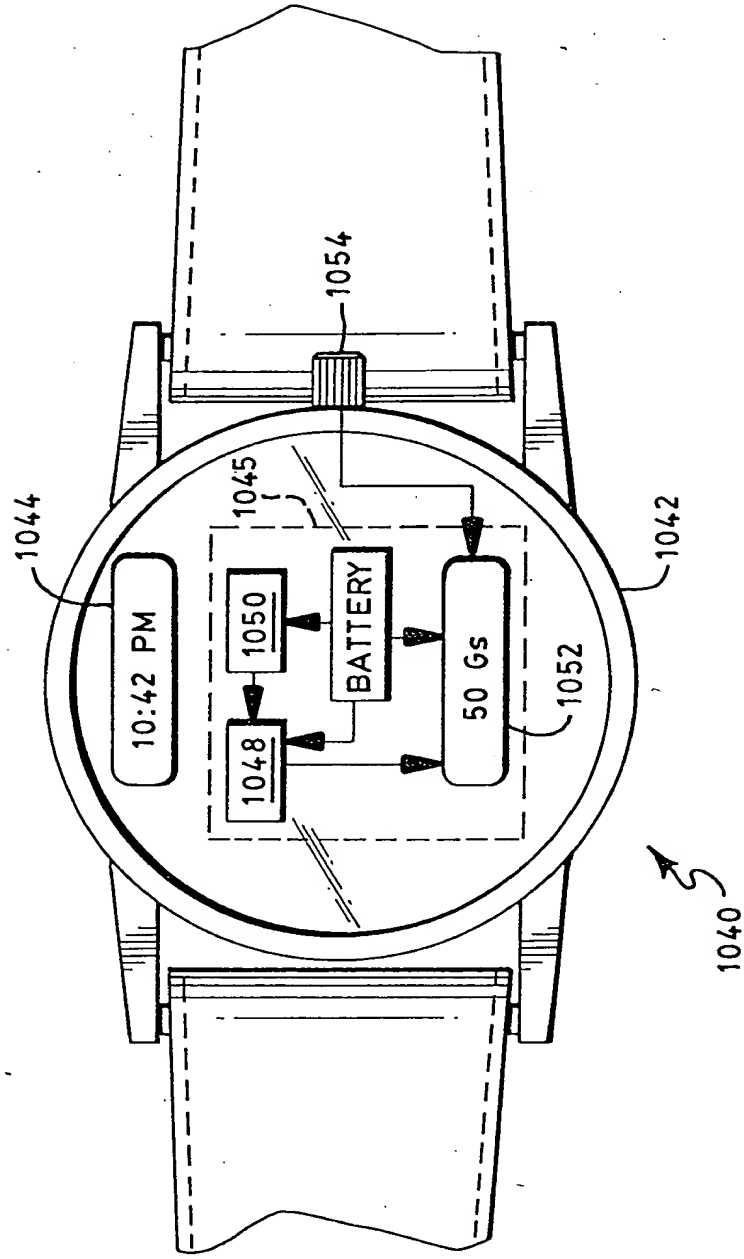


FIG. 39

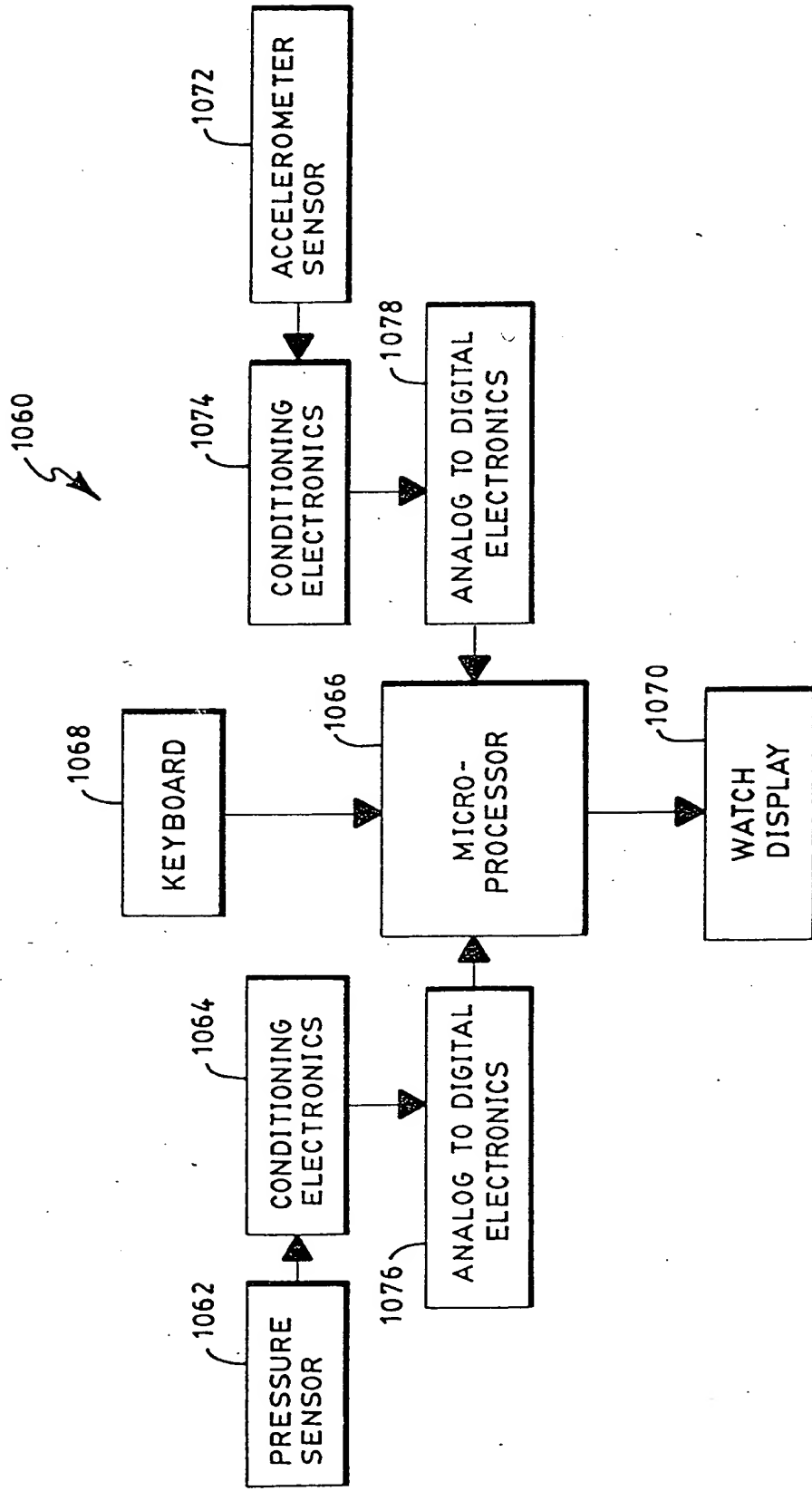


FIG. 40

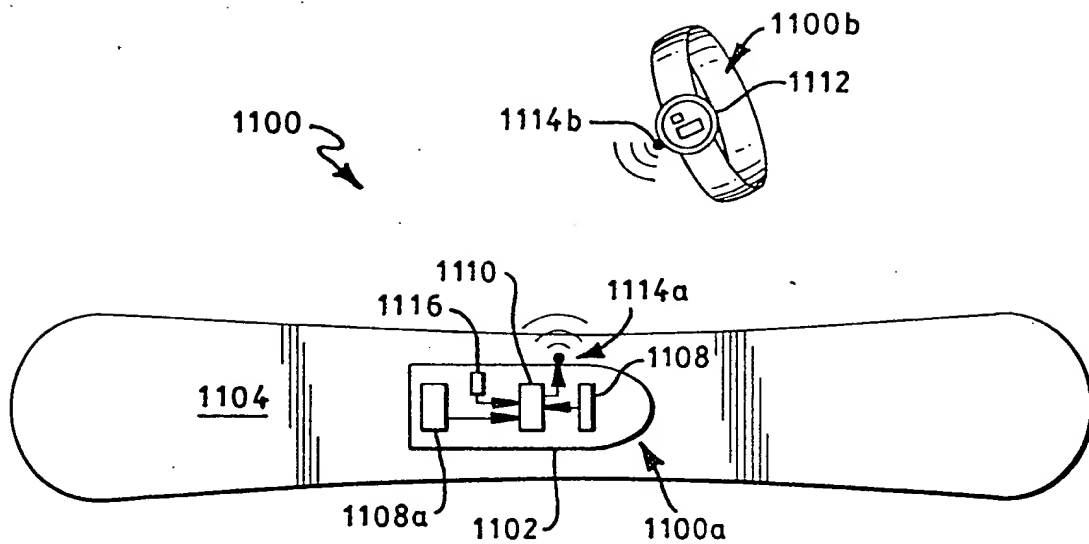


FIG. 41

ACCELEROMETER SPECTRA, $\leq 2\text{mph}$

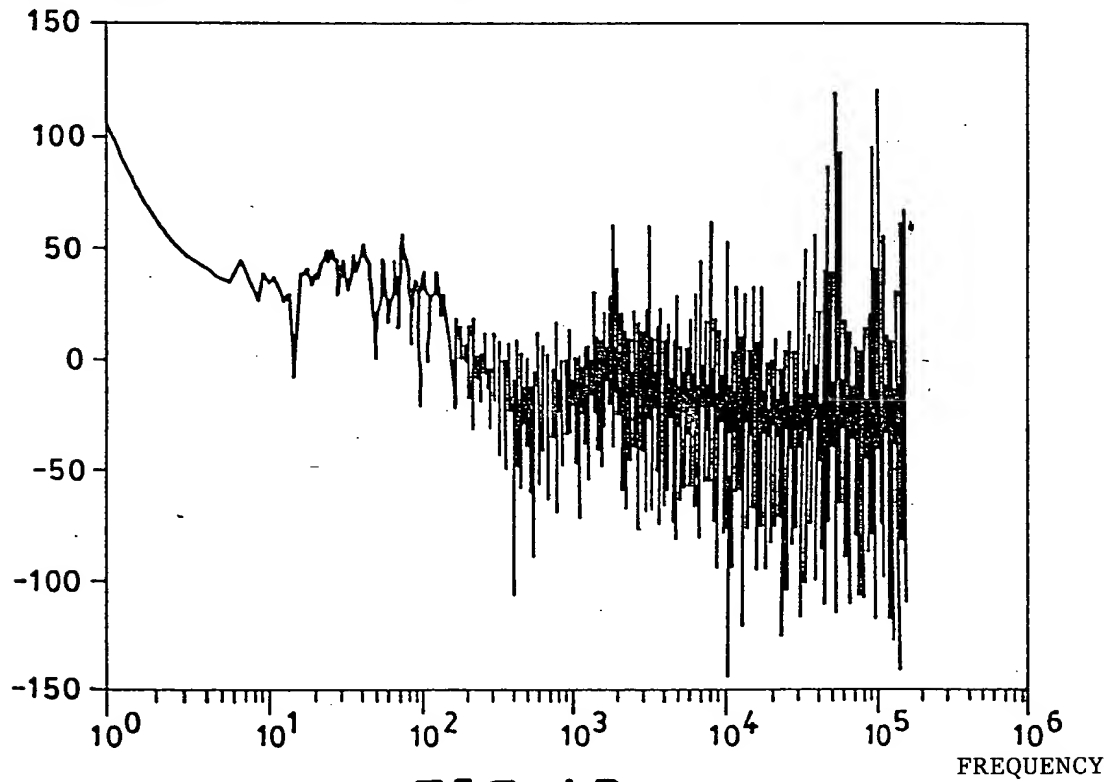


FIG. 43

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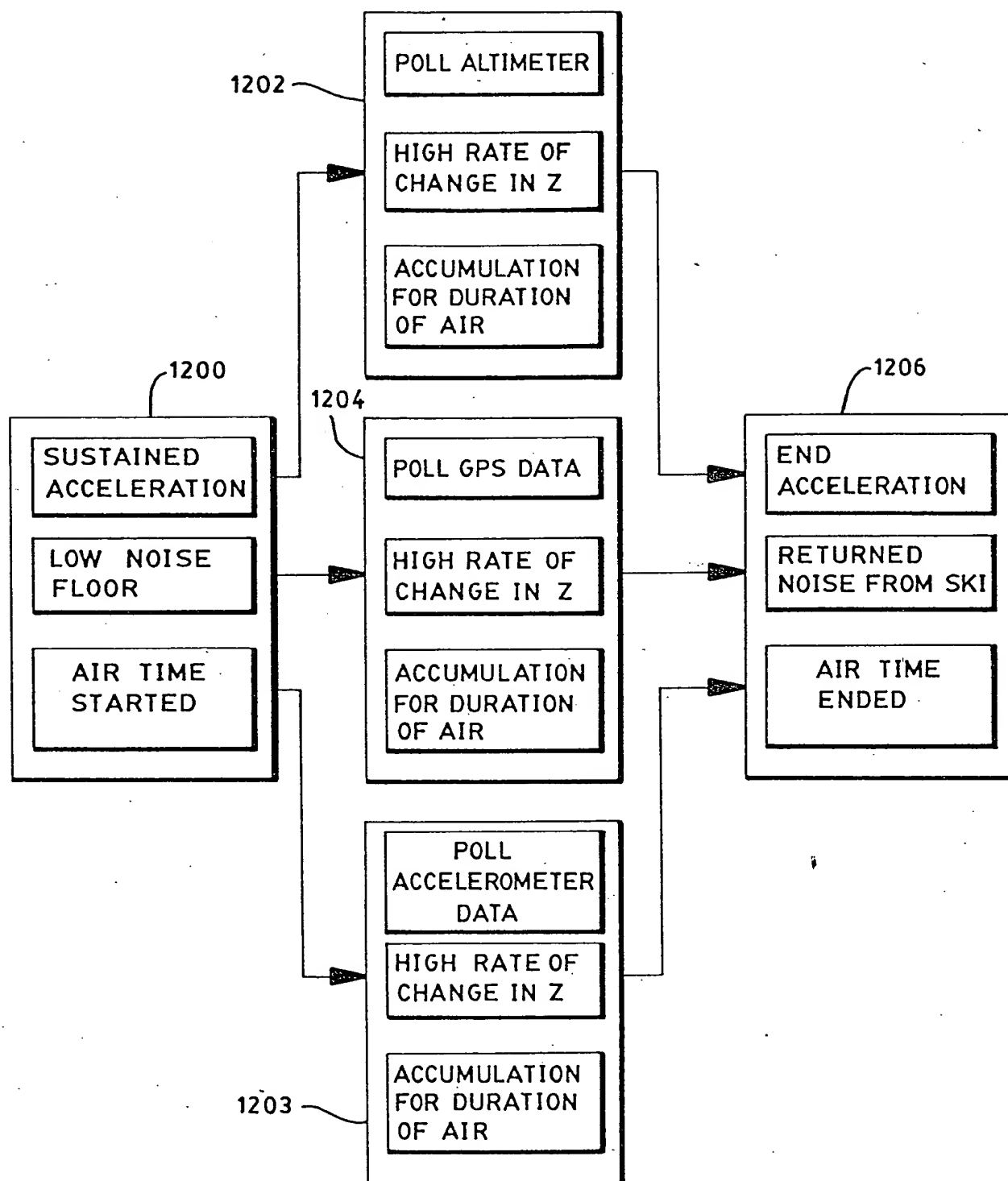


FIG. 42

FOOT 99626650

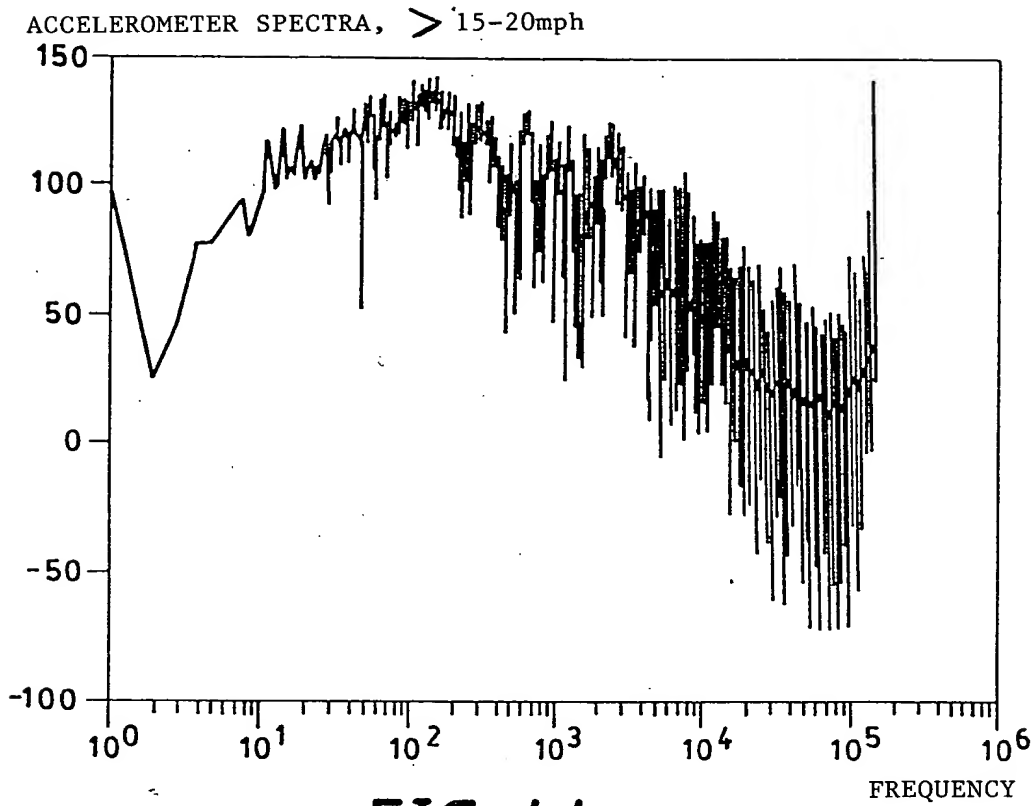


FIG. 44

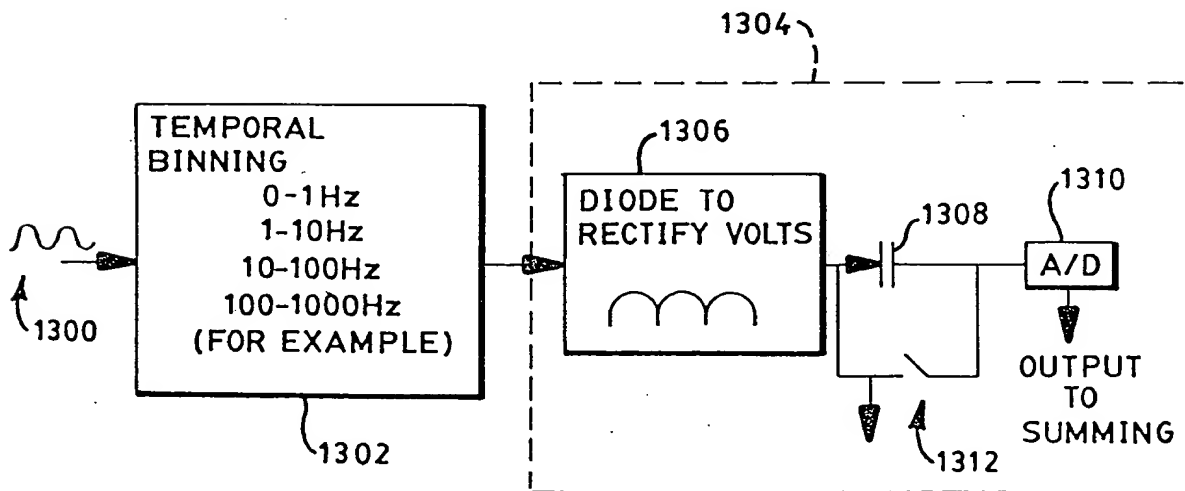


FIG. 45

FIG. 46

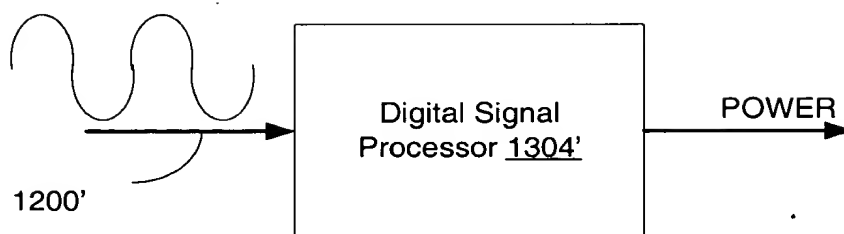


FIG. 46

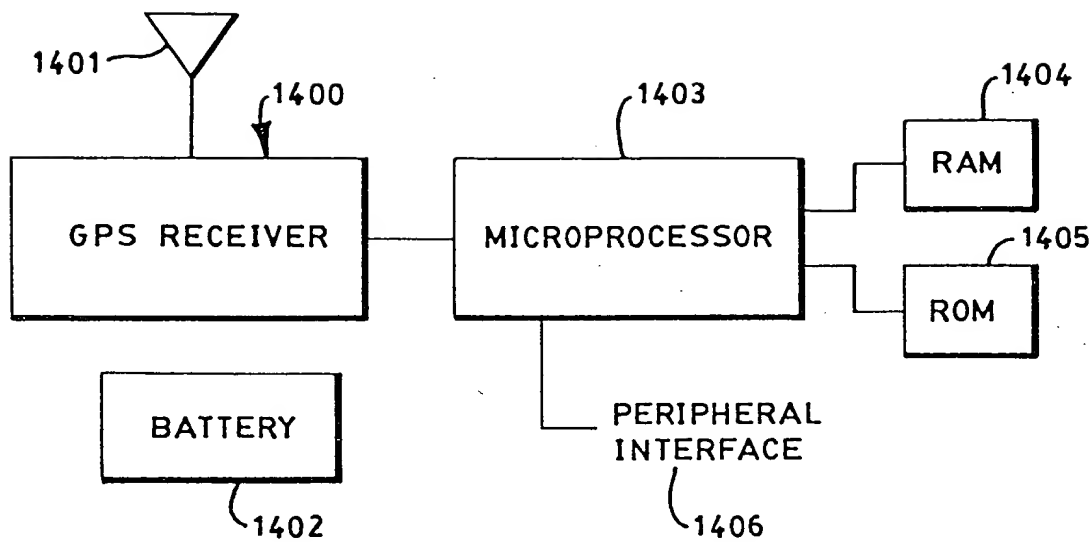


FIG. 47

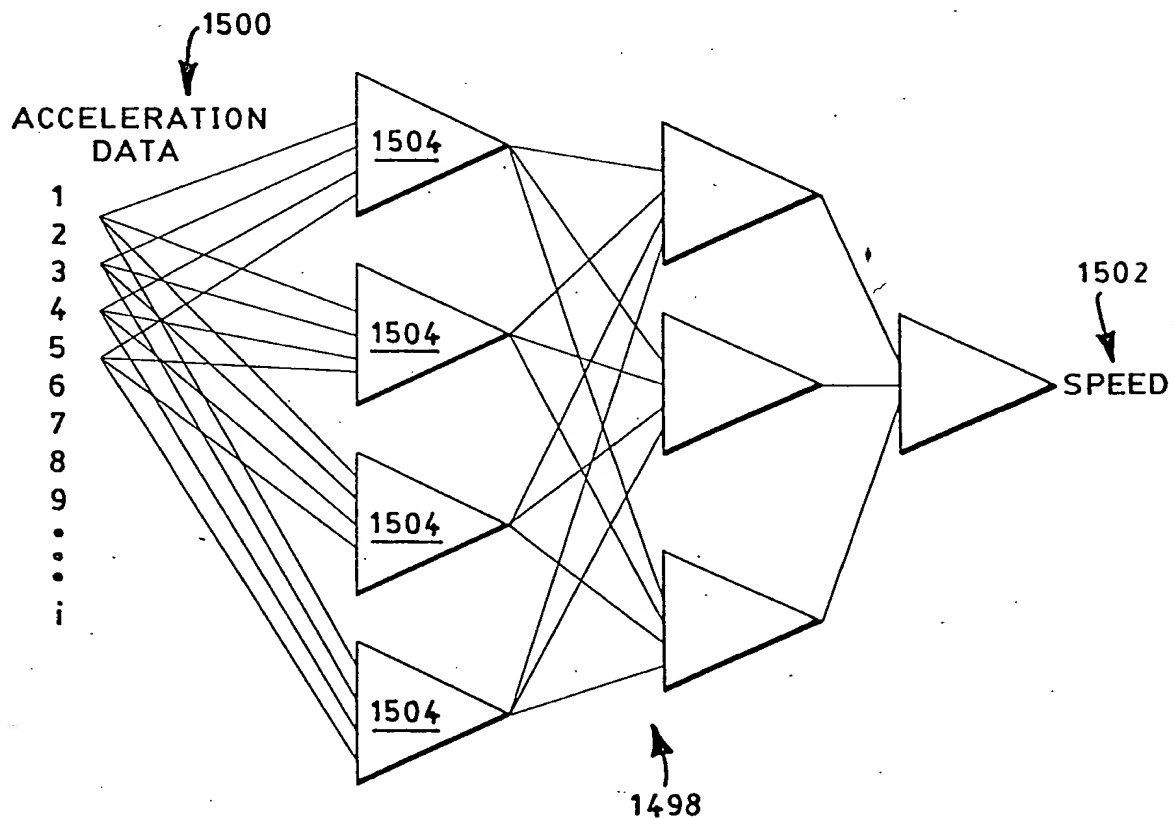


FIG. 48

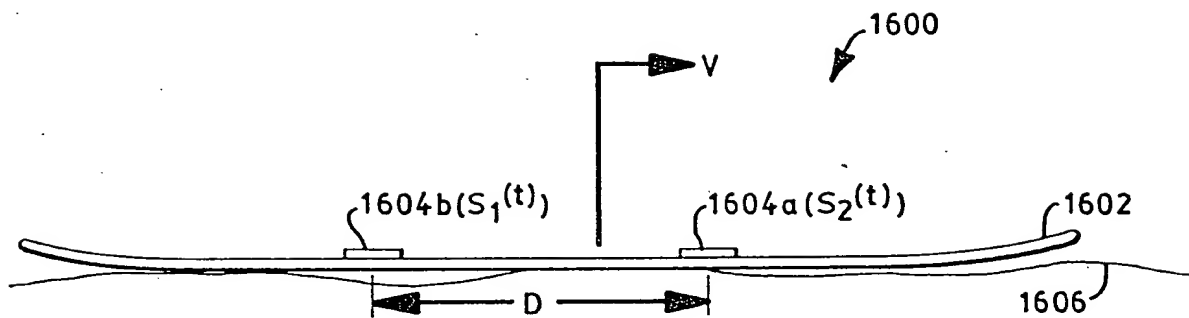


FIG. 49

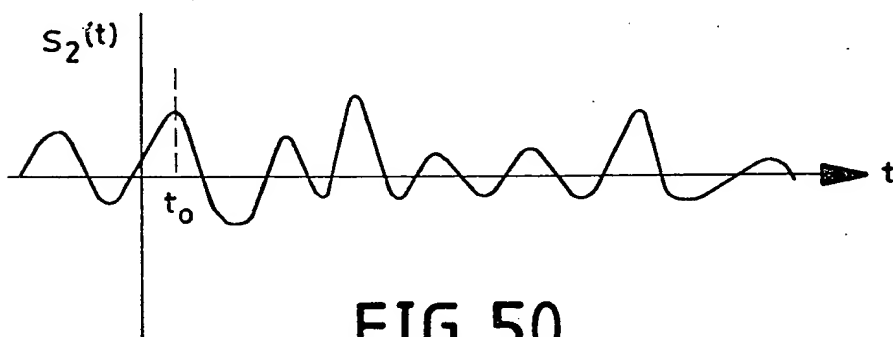


FIG. 50

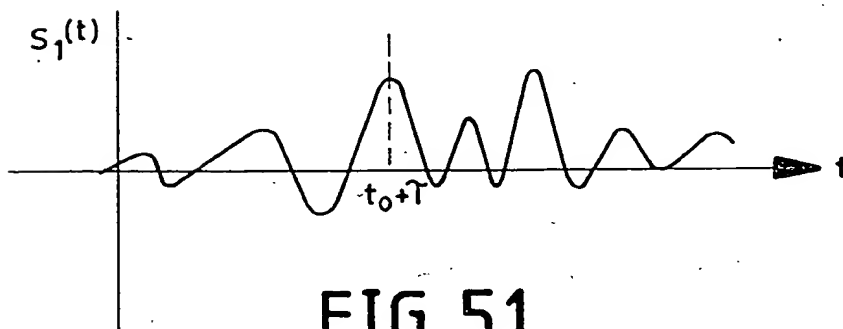
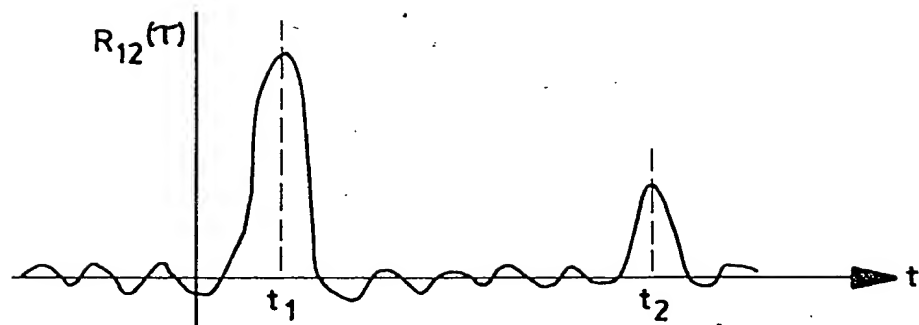


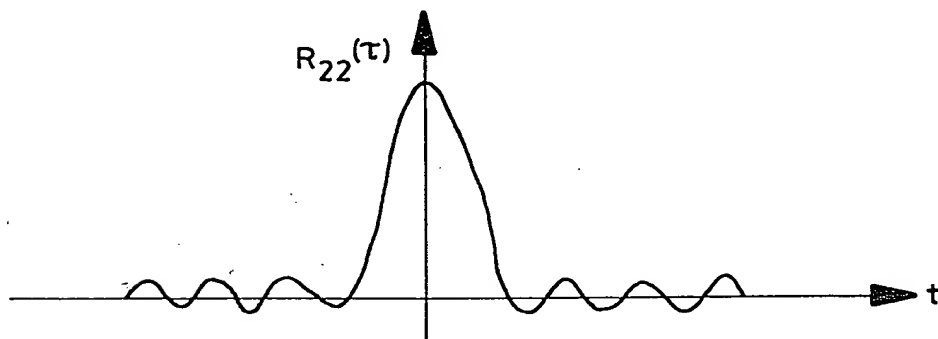
FIG. 51

FIG. 49



TYPICAL CROSS-CORRELATION FUNCTION

FIG. 52



TYPICAL AUTO-CORRELATION FUNCTION

FIG. 53

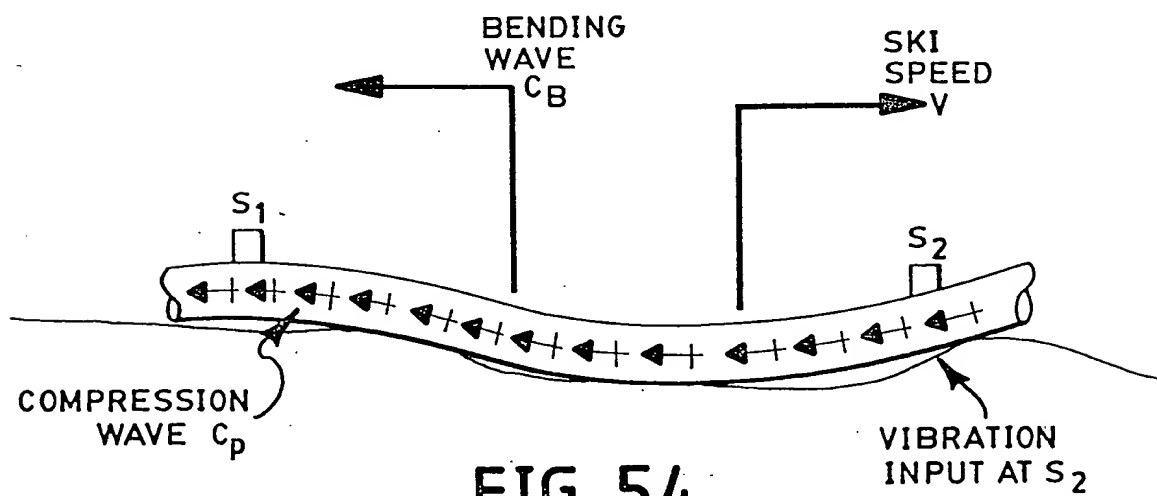


FIG. 54

0992966-110601

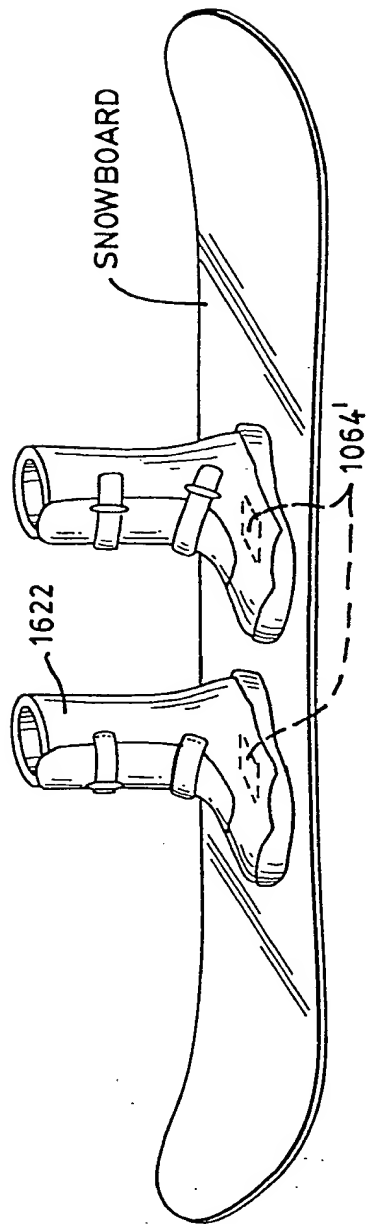


FIG. 55

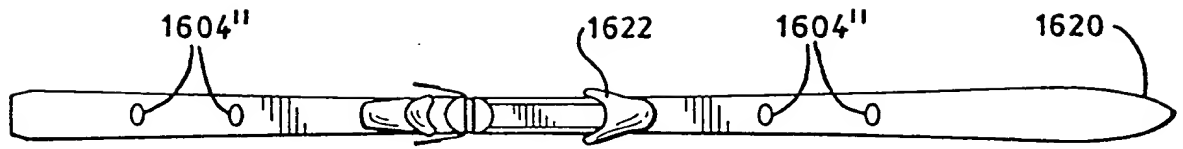


FIG. 56

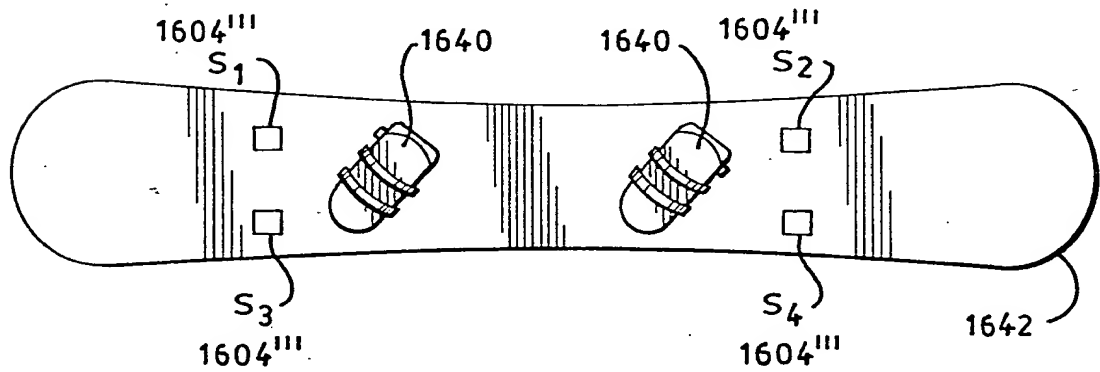


FIG. 57

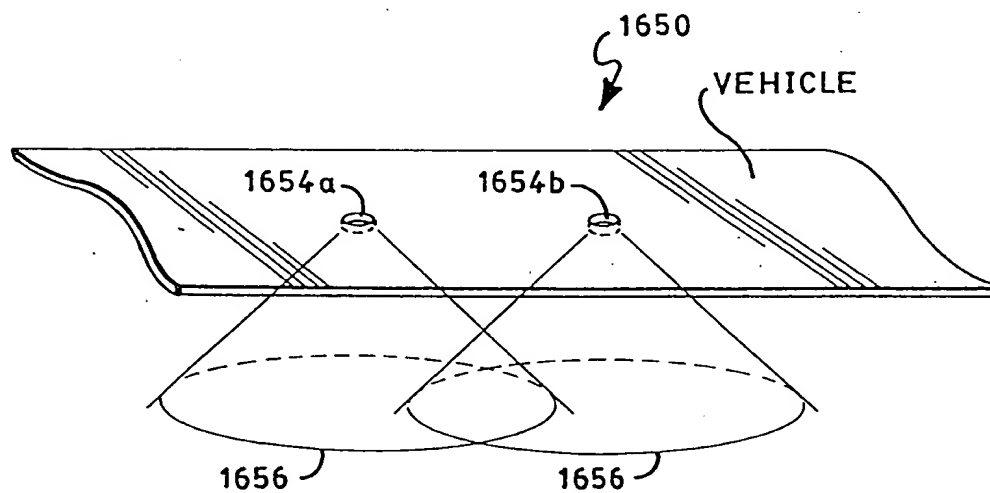


FIG. 58

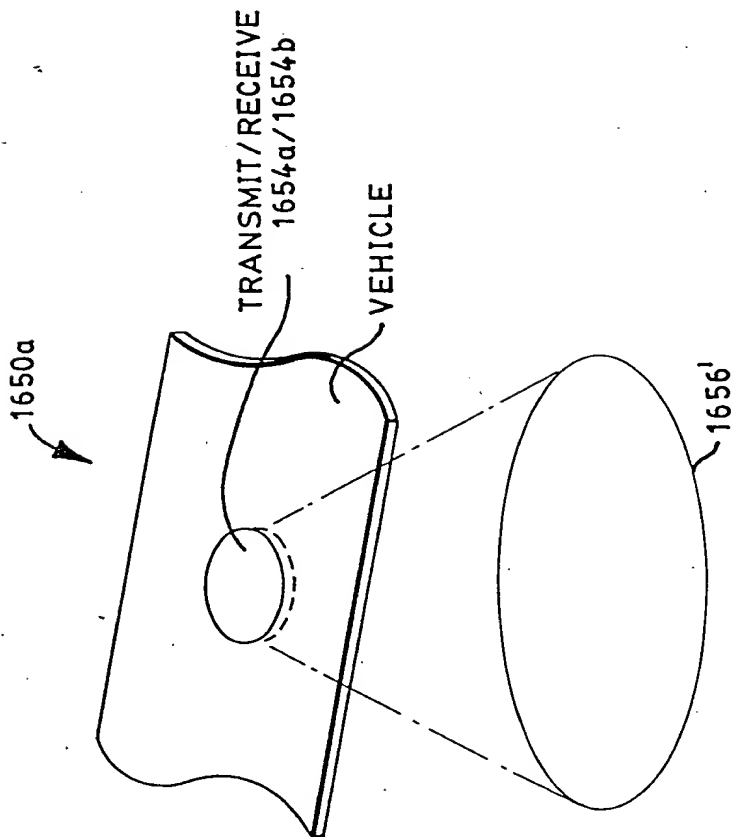


FIG. 59

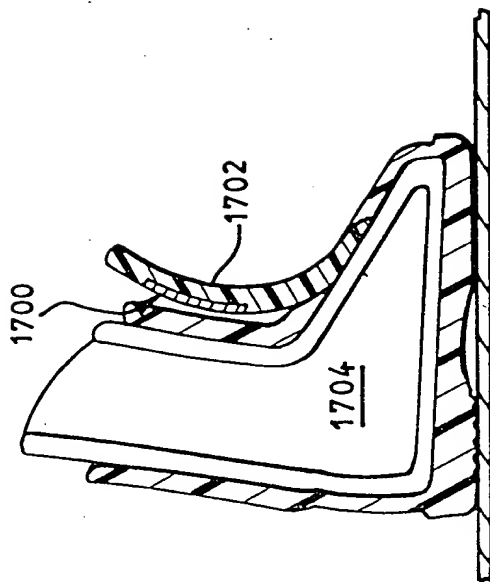
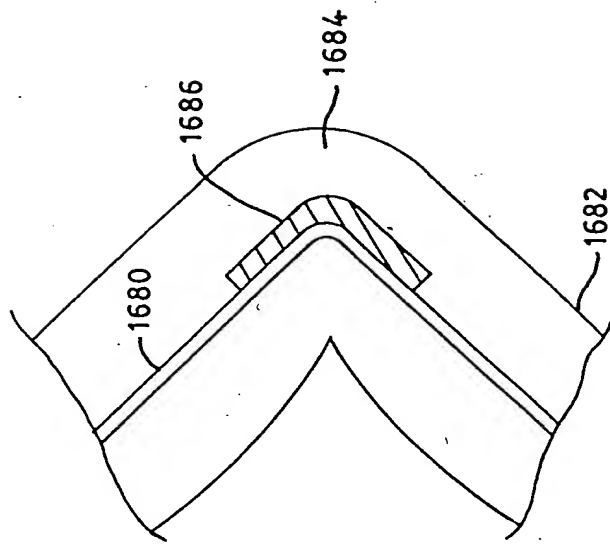
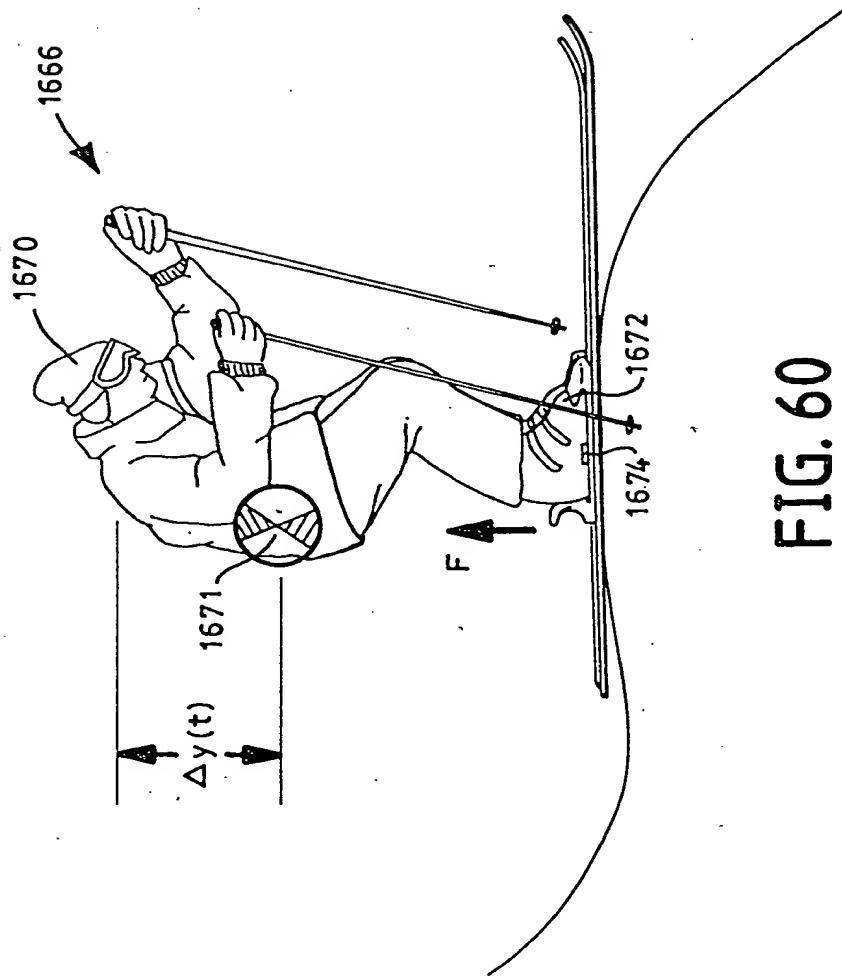


FIG. 62



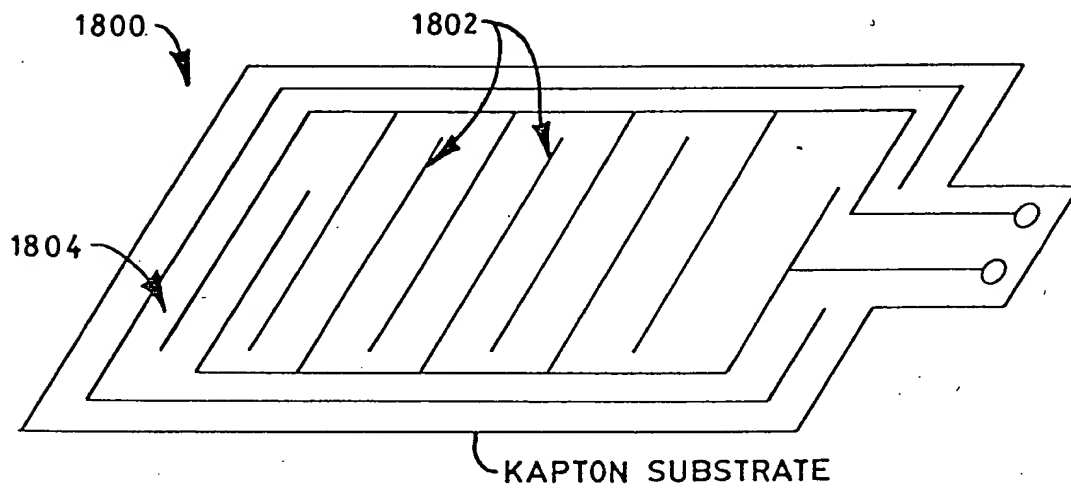


FIG. 63

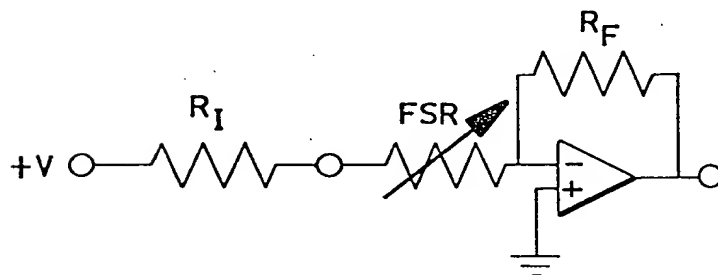
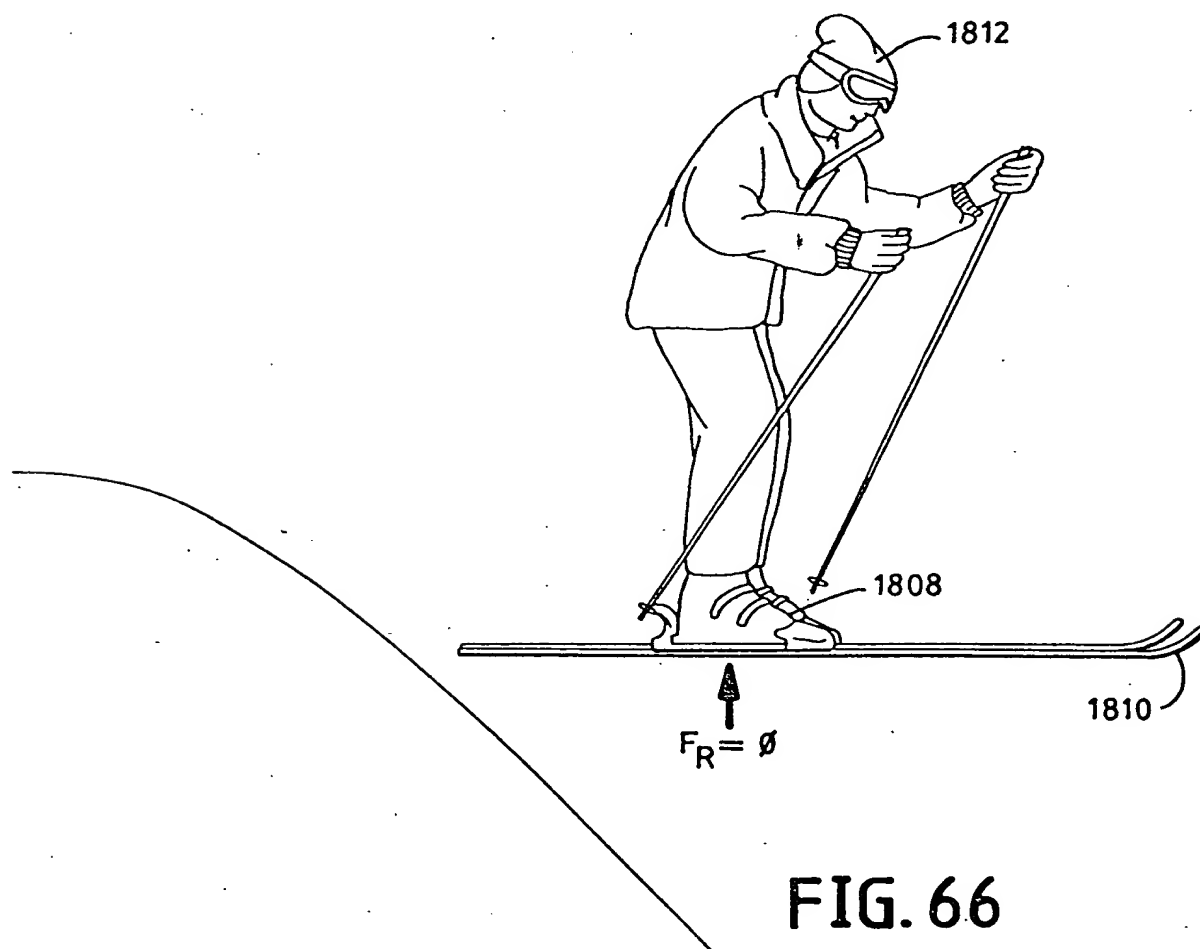
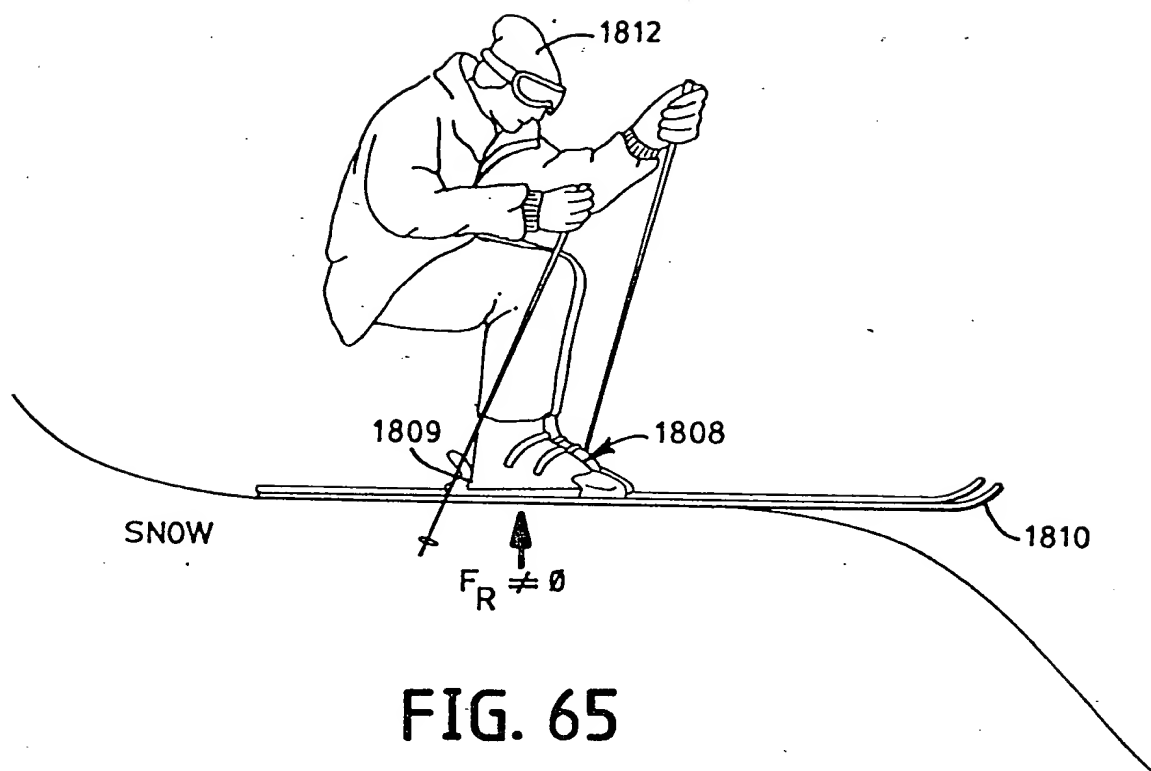


FIG. 64



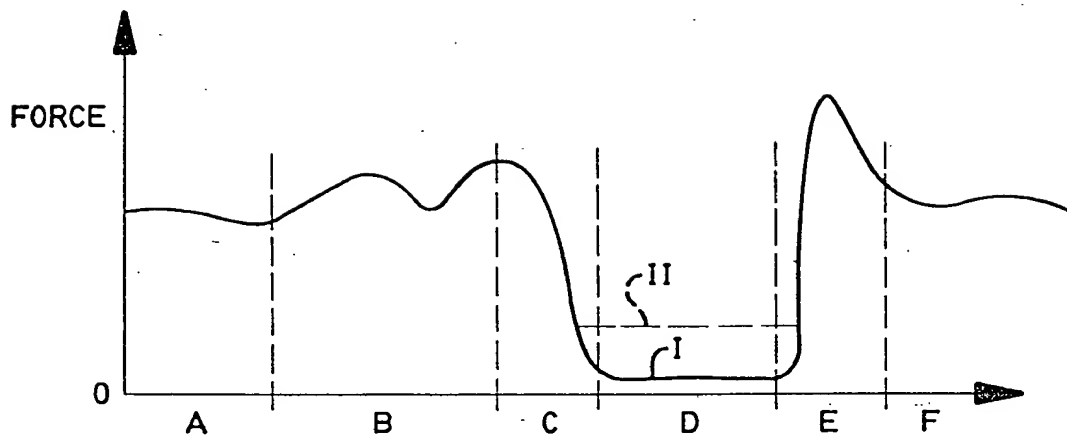


FIG. 67

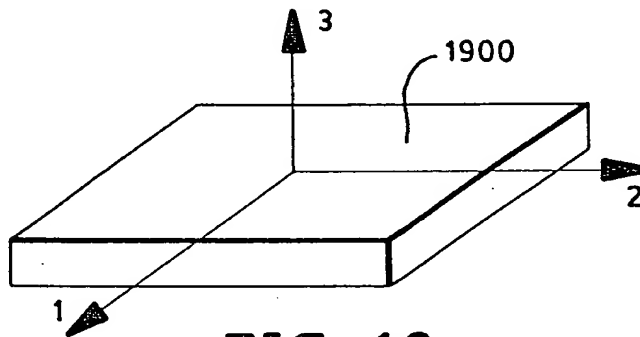


FIG. 68

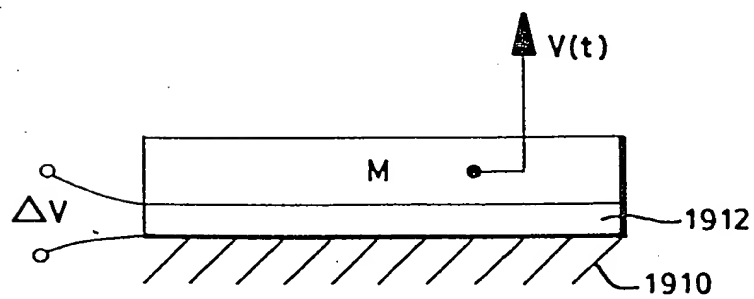


FIG. 69

FO90T" 99626660

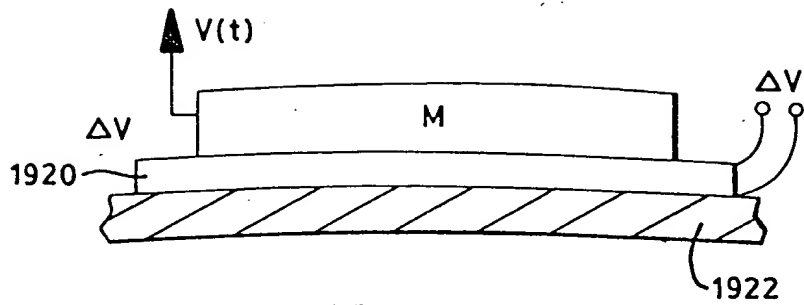


FIG. 70

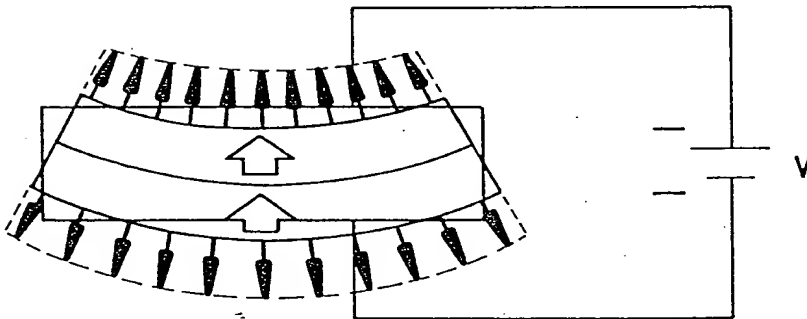


FIG. 71

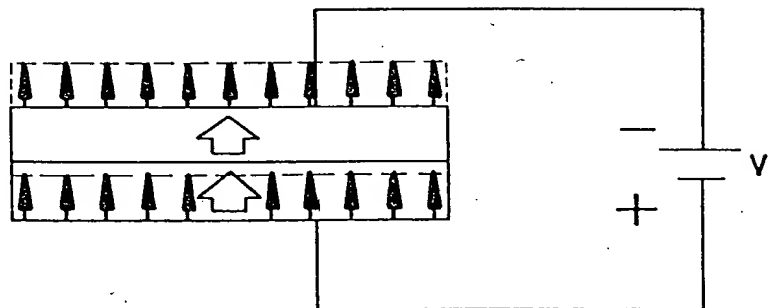


FIG. 72

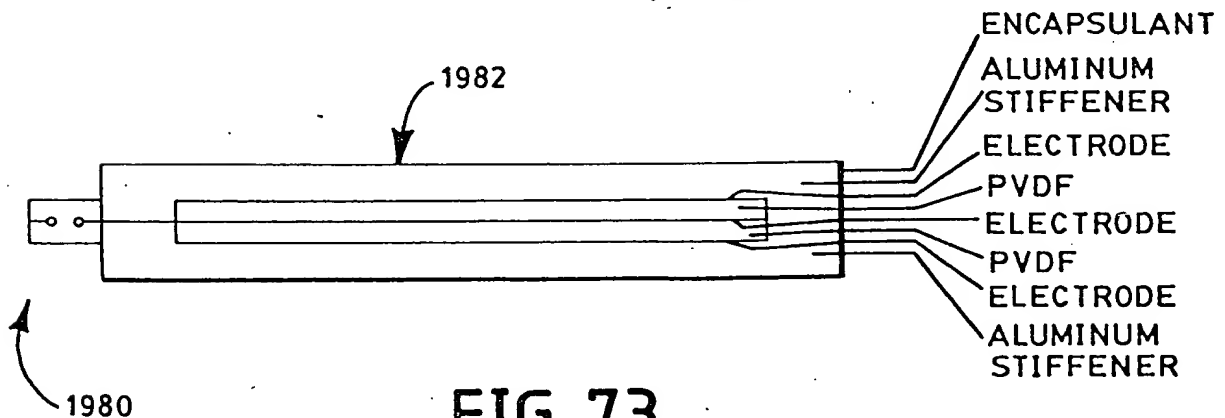


FIG. 73

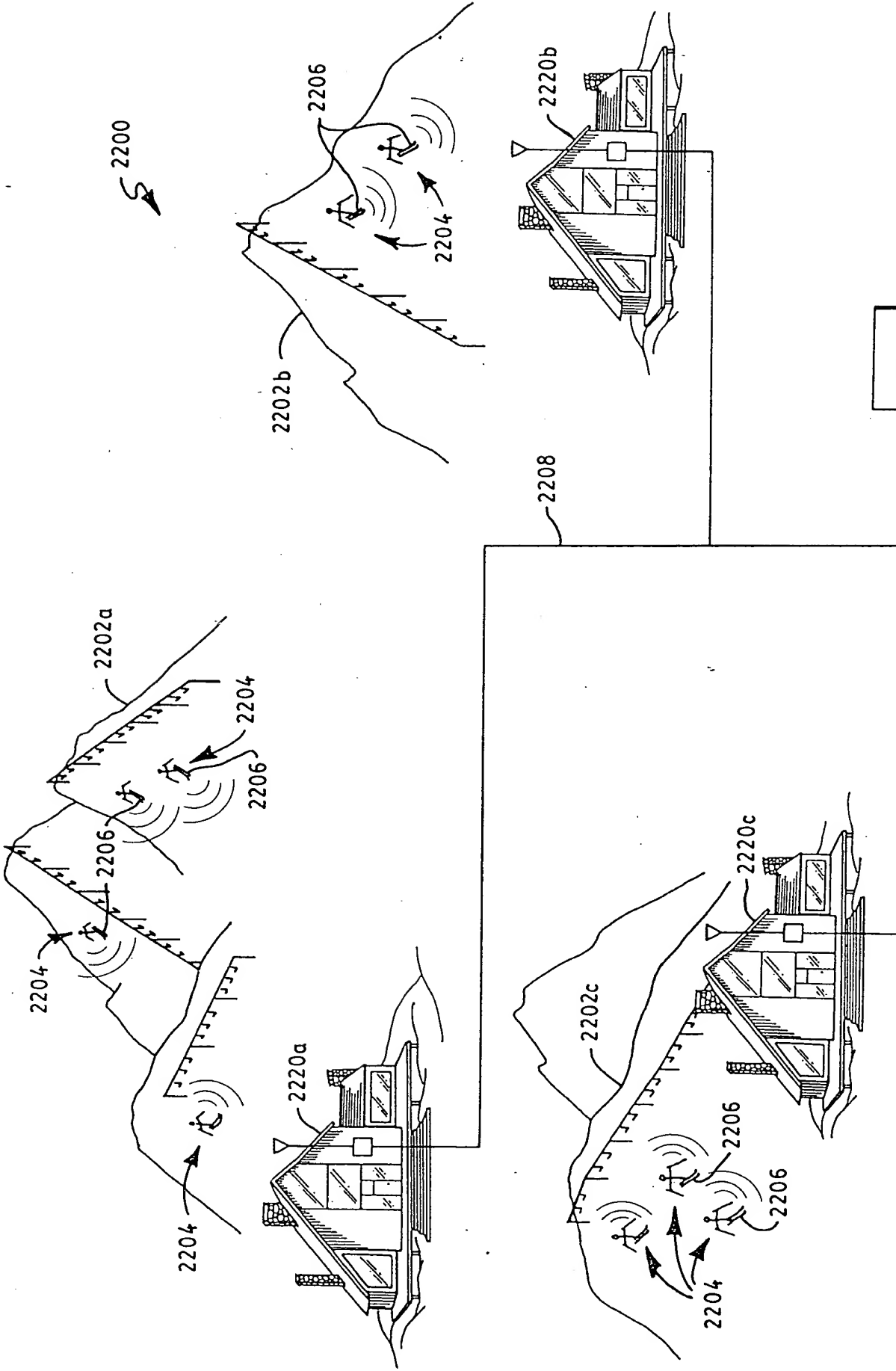
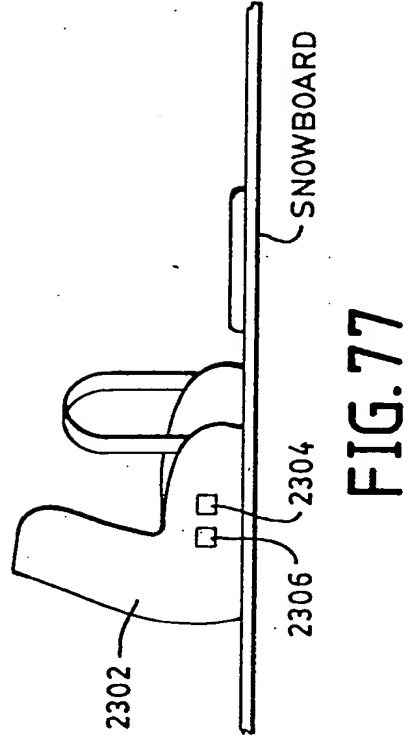
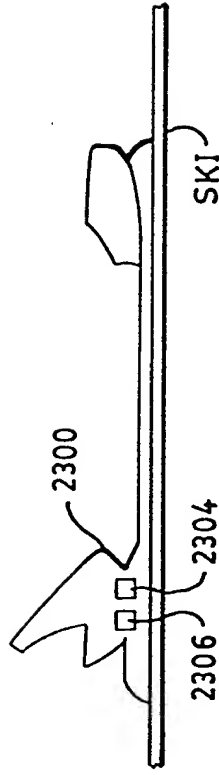
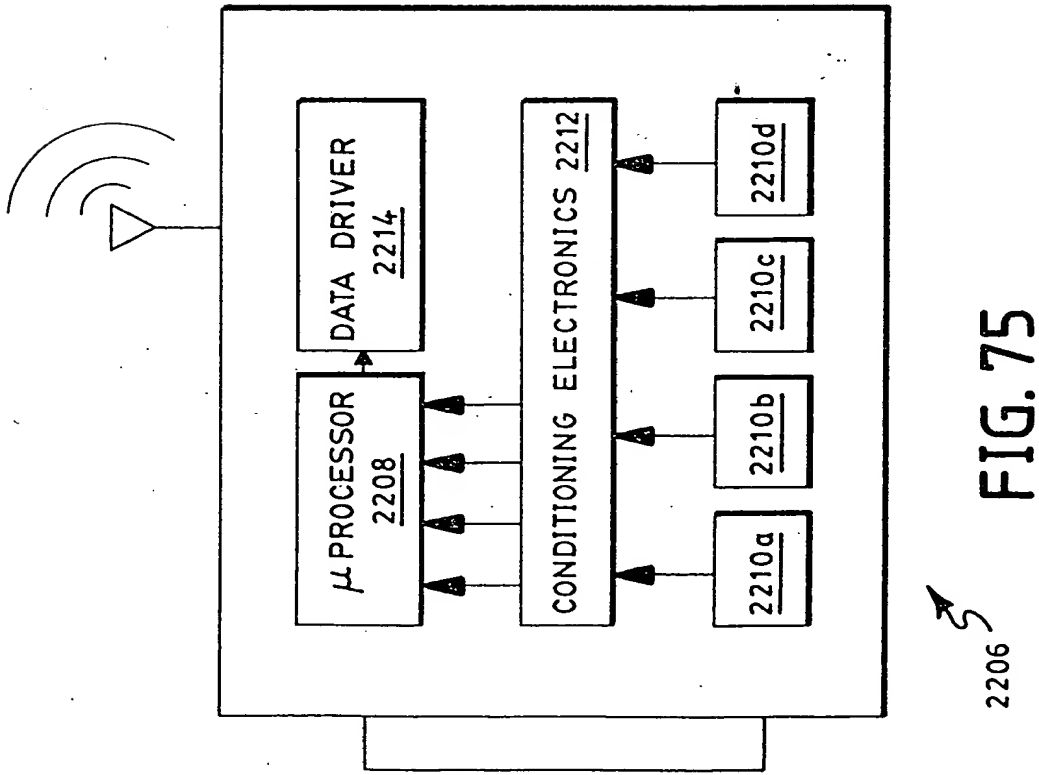


FIG. 74

2222



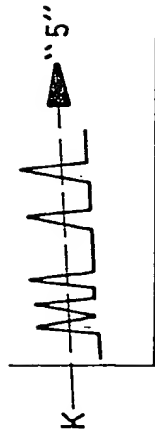


FIG. 78

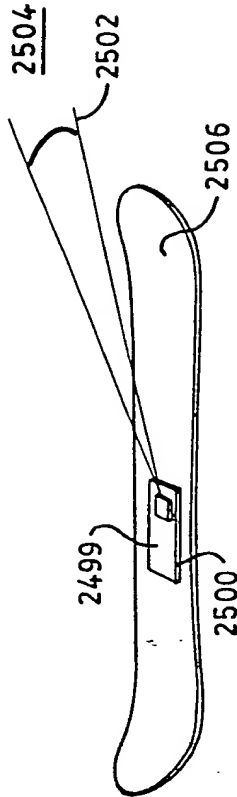


FIG. 79

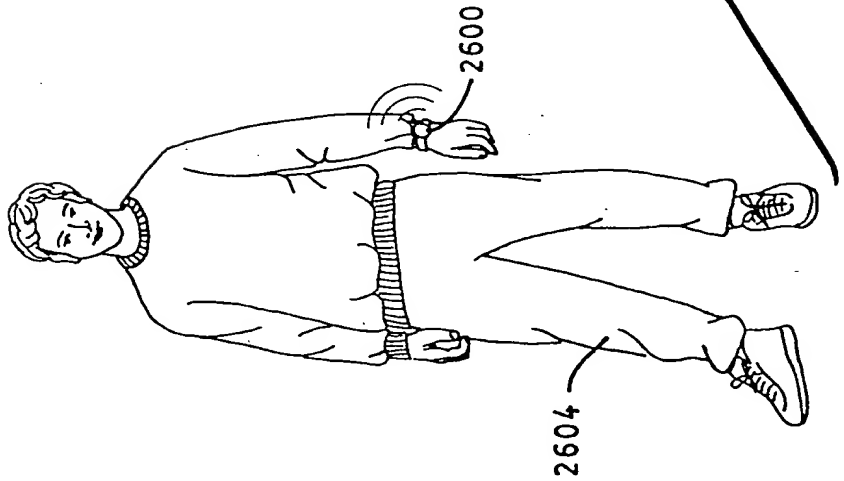


FIG. 80

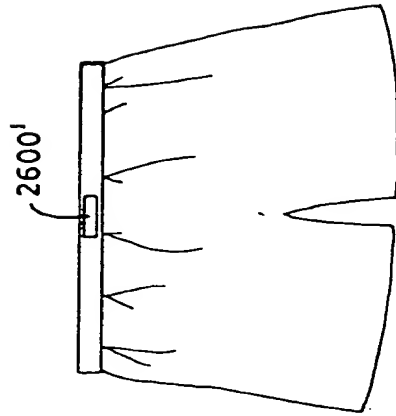
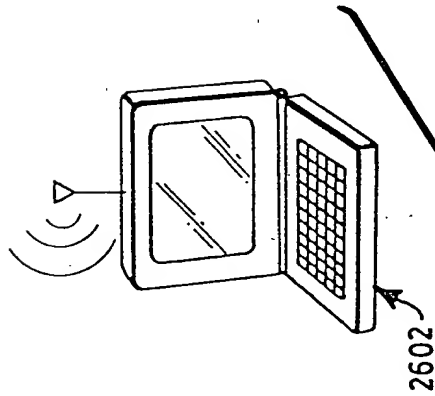


FIG. 81

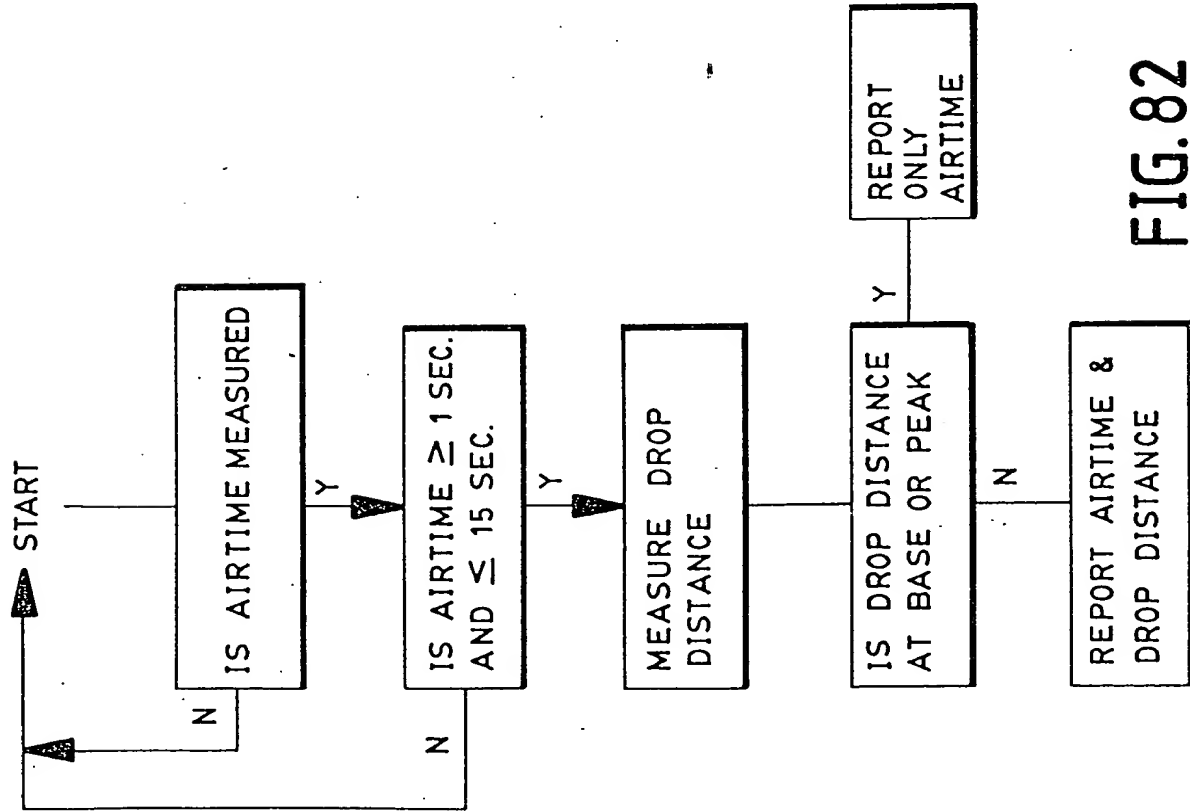


FIG. 82

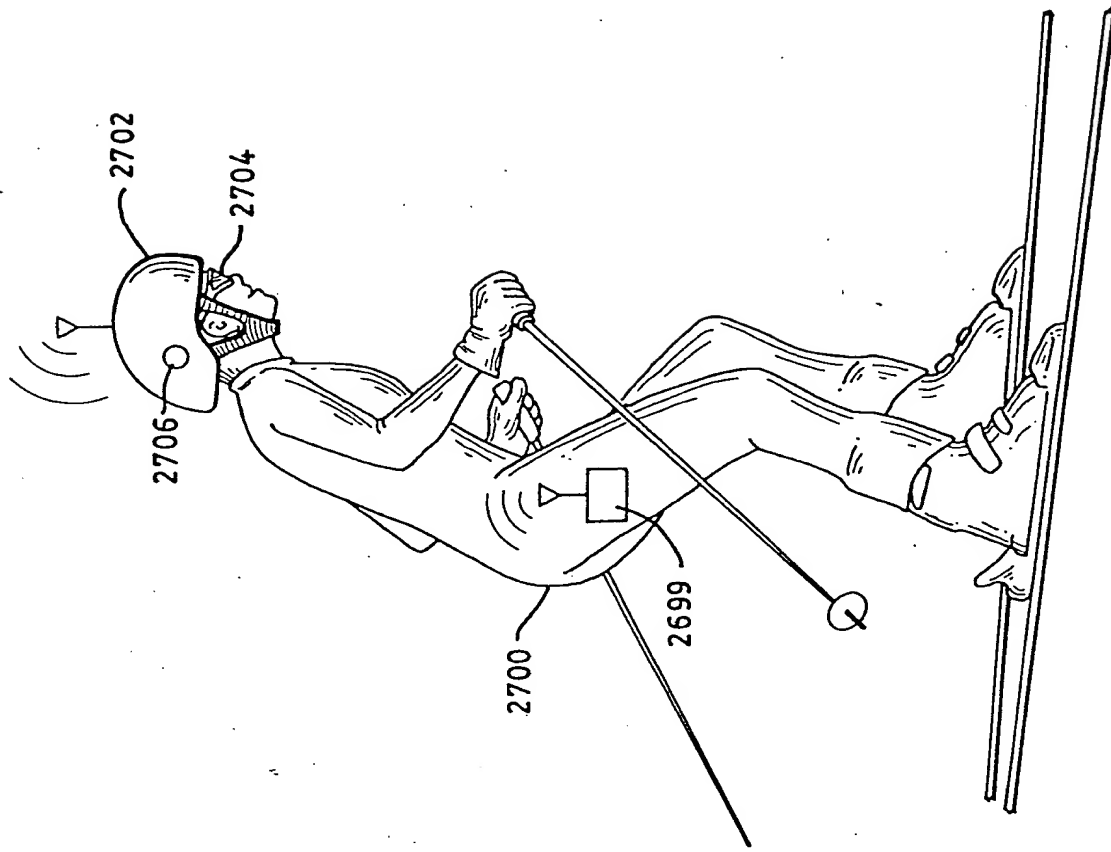


FIG. 83

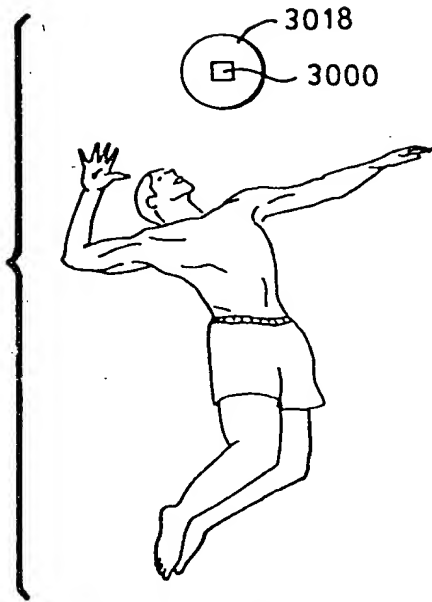


FIG. 84B

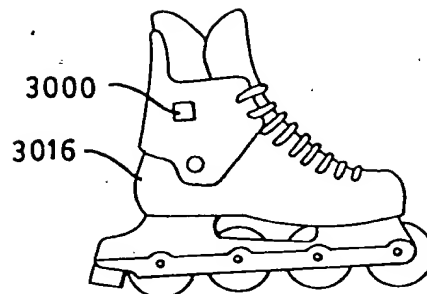


FIG. 84A

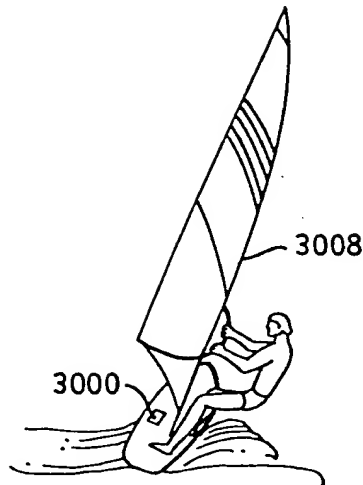


FIG. 84C

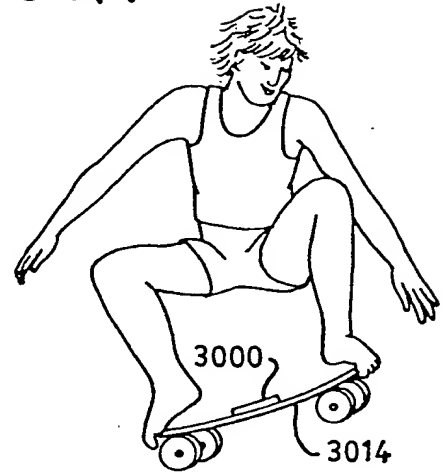


FIG. 84D

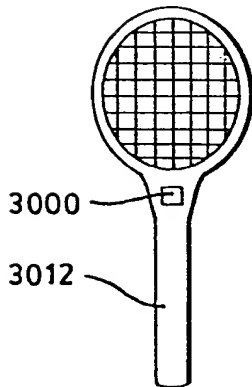


FIG. 84E

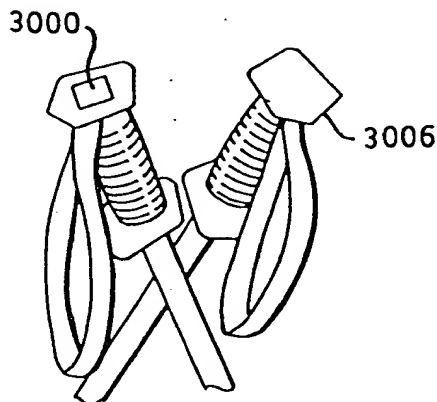


FIG. 84F

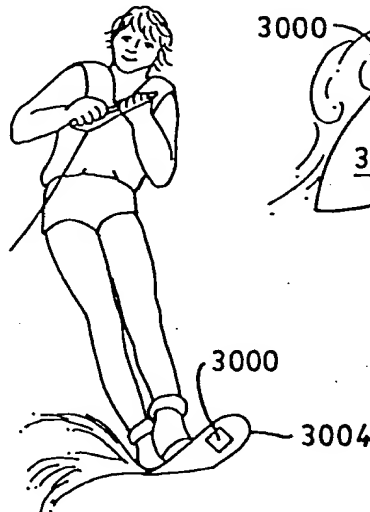


FIG. 84G

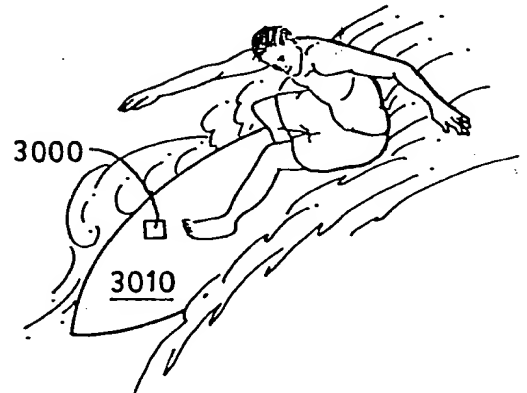


FIG. 84H